



# भारत का राजपत्र

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No. 33] NEW DELHI, SATURDAY, AUGUST 18, 1984 (SRAVANA 27, 1906)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बंधित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

#### THE PATENT OFFICE

#### PATENTS AND DESIGNS

Calcutta, the 18th August 1984

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Telegraphic address "PATENTOFIC".

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APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE 214, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-700017

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

12th July, 1984

503[Cal]84. Novavis Intercontinental, Ltd. Method for Production of useful substances from soymeal.

504[Cal]84. Pennwalt Corporation. Polyhydroxy Polymer Delivery Systems.

505[Cal]84. Vsesojuzny Nauchno-Issledovatel'sky I Proektny Institut Aljuminievoi Magnievoi I elektrodnoi Promyshlennosti, Carbonization Control method for aluminum solution.

506[Cal]84. Indian Jute Industries' Research Association. An improved delivery conductor for jute carding machines.

13th July, 1984

507[Cal]84. Veb Kombinat Polygraph "Werner Lamberz" Leipzig. Inking means for a rotary printing machine. (29th December 1983).

508[Cal]84. Veb Kombinat Polygraph "Werner Lamberz" Leipzig. Inking Means. (22nd December 1983).

509[Cal]84. Demussa Aktiengesellschaft. Method of Consolidating or strengthening loose soil or sand.

510[Cal]84. Warman International Limited. Improved Impeller. (14th July, 1983).

16th July, 1984

511[Cal]84. Professor DR-Ing. Dieter Wurz. A Flared tube arrangement.

512[Cal]84. Hoechst Aktiengesellschaft. Bicyclic copper complex formazan compounds, suitable as dyestuffs.

513[Cal]84. Gewerkschaft Elsenhutte Westfalia. Channel pan for scraper-Chain conveyors. (Addition to No. 454[Cal]84 dt. 28th June 1984).

17th July, 1984

514[Cal]84. Franz Xaver Huemer. Circular Loom.

515[Cal]84. Metallgesellschaft Aktiengesellschaft. Method of Processing Chromite Ores.

18th July, 1984

516[Cal]84. Indian Jute Industries' Research Association. An instrument means for the evaluation of irregularity of textile strands referred to jute.

517[Cal]84. Merck Patent Gesellschaft mit beschränkter Haftung. Dispersible Berlin blue pigment.

518[Cal]84. Merck Patent Gesellschaft mit beschränkter Haftung. Weathering-resistant pearlescent pigments.

APPLICATION FOR PATENT FILED AT THE PATENT  
OFFICE BRANCH, MUNICIPAL MARKET BUILDING  
III RD FLOOR, KAROL BAGH, NEW DELHI-5

11th June, 1984

471[Del]84. Chavanoz S.A. "A method and apparatus for the manufacture of fancy yarns".

472[Del]84. John Zink Co., "Method and apparatus for combusting ash producing solids".

473[Del]84. Standard Oil Co., "Controlling solubility of lithium salts in liquid sulfur dioxide".

474[Del]84. Taron Mohan. "A device for measuring the quantity of liquified petroleum gas within a cylinder".

475[Del]84. Taron Mohan. "A device for measuring the quantity of liquified petroleum gas within a cylinder".

12th June, 1984

476[Del]84. The B. F. Goodrich Company, "Novel scale inhibiting copolymer and method for inhibiting scale deposition".

477[Del]84. Bicc Public Limited Company, "An improved overhead flexible electric conductor". (Convention date June 17, 1983).

478[Del]84. Bicc Public Limited Company, "An improved optical fibre ribbon structure". (Convention date June 17, 1983).

479[Del]84. Victor Equipment Company, "Motorized hand torch".

480[Del]84. Shell Internationale Research Maatschappij B.V., "Elastomeric copolymers, their preparation and their use". (Convention date June 13, 1983).

13th June, 1984

481[Del]84. Biomass International, Inc., "Method and apparatus for continuously hydrolyzing cellulosic material".

482[Del]84. The Bendix Corporation, "Mechanism for cleaning and drying compressed gasses".

483[Del]84. Armco, Inc., "Method of controlling substantially equal distribution of particulates from a multi-outlet distributor and an article constructed according to the method".

484[Del]84. Molecular Diagnostics, Inc., "Labelled nucleic acid probes and adducts for their preparation".

485[Del]84. Bonas Machine Company Limited, "Weaving loom". (Convention date June 16, 1983).

14th June, 1984

486[Del]84. Sunil Morvin Simon, "Variable electric make-break System".

487[Del]84. Interox, "Process and appliance for the production of gaseous products by decomposition of liquids".

488[Del]84. Gunson's Sortex Limited, "Sorting machine". (Convention date June 30, 1983).

489[Del]84. Sulzer Brothers Limited, "Phase distribution tank".

490[Del]84. Decca Limited, "Spread spectrum system". (Convention date July 8, 1983).

15th June, 1984

491[Del]84. The Lubrixol Corporation, "A method of preparing metal salts of dialkylphosphofodithioic acids".

492[Del]84. Texas Gas Transport Company, "Method and system for producing natural gas from offshore wells".

16th June, 1984

493[Del]84. Council of Scientific and Industrial Research, "An improved process for the selective separation of linear terminal olefine hydrocarbons from petroleum fractions".

The 18th June, 1984

494[Del]84. Applications Mecaniques Et Robinetterie Industrielle A.M.R.I., "Actuator with pneumatic energy accumulator more especially for coc valves".

495|Del|84. Otdelenie Vsesojuznogo Nauchno-Issledovatel'skogo Instituta Elektrotermicheskogo Oborudovaniia V Gorode Khareove, "Apparatus for drying capacitors".

The 19th June, 1984

496|Del|84. Fix-A-Form International Limited, "Label".

497|Del|84. CARL J. Alexander, "Articulated Saw".

498|Del|84. The Halcon Sd Group, Inc., "Ethylene oxide reactor".

The 20th June, 1984

499|Del|84. Creusot-Loire, "Fluidized bed compact boiler".

500|Del|84. Otis Elevator Co., "Hydraulic buffer for elevators".

The 21st June, 1984

501|Del|84. Bal Krishan Gupta, "A device for detecting leakage of L P gas cylinder".

502|Del|84. Gopal Nath Tiwari, "Double slope multiwick solar still".

503|Del|84. Council of Scientific and Industrial Research, "Improvements in or relating to a process for the preparation of ceramic magnets".

504|Del|84. Council of Scientific and Industrial Research, "An improved process for the preparation of manganese sulphate".

505|Del|84. Council of Scientific and Industrial Research, "Improvements in or relating to package water treatments parts for waters of varying turbidities".

506|Del|84. Council of Scientific and Industrial Research, "A process for complete separation of stigmasterol-derived products from phytosterols of sugarcane wax by filtration on silica gel, synthesis of 22, 23-dihydroxy-245-ethyl-3  $\alpha$  5-cyclo-5 $\alpha$ -cholestan-6-one, important intermediate in the synthesis of Byassinoide group of plant growth stimulators".

507|Del|84. Council of Scientific and Industrial Research, "A process for the preparation of monoalkyl ester of azelaic acid a compound useful in the synthesis of civetone a valuable perfumery product".

The 22nd June, 1984

508|Del|84. Mefina S.A., "Machine for working materials such as wood, metal and plastic".

The 23rd June, 1984

509|Del|84. Binod Kumar Bhutoria & Amod Kumar Bhutoria, "Flourescent choke with fuse system".

The 25th June, 1984

510|Del|80. L'Air Liquide, Societe Anonyme Pour L'Etude Et L'Exploitation des procedes georges claude, "Process and device for vaporizing a liquid by heat exchange with a second fluid and their application in an air distillation installation".

511|Del|84. Latvisky Gosudarstvenny Universitet Nmeni Petra Stucki, "Method for preparing hydroxy compounds of aromatic and heteroaromatic series".

The 26th June, 1984

512|Del|84. Pyrolysis systems Inc., "Plasma Pyrolysis waste destruction". (Convention date January 23, 1984).

513|Del|84. Alsthom-Atlantique, "Rotary sluice gate".

514|Del|84. UOP Inc., "Alkylation process with improved linear alkylbenzene recovery".

515|Del|84. Gyorgy Timar and Peter Lonyai, "Product suitable for use in the production of carbonic liquids for human consumption, particularly carbonic soft drinks and process for the preparation and storing thereof".

516|Del|84. Modern Balance Works, "A locking means for use with a single pan balance".

517|Del|84. Modern Balance Works, "A locking system for use with a single pan balance".

518|Del|84. Modern Balance Works, "A single pan balance".

519|Del|84. Modern Balance Works, "A preweightment means for use in a single pan balance".

The 27th June, 1984

520|Del|84. Colgate-Palmolive Company, "Stable antiplaque dentifrice with improved foaming and fluoride stability".

521|Del|84. Jackie Andre De Ruyter, "Broom body with artificial boughs".

522|Del|84. Dr. J. S. Ichhponani, Dr. G. S. Makkar & Dr. A. K. Ahuja, "An economical and safe urea mineral lick for ruminants".

The 28th June, 1984

523|Del|84. The Director, All India Institute of Medical Sciences, "A stretcher adapted for use by a patient".

524|Del|84. The Director, All India Institute of Medical Sciences, "A rescue and emergency care vehicles".

525|Del|84. The Secretary of State for Defence in Her Britannic Majesty's Government of the United Kingdom of Great Britain and Northern Ireland "Improvements in relating to magnetic assemblies". (Convention date July 4, 1983).

526|Del|84. Toth Aluminium Corporation, "Purification of aluminium chloride".

The 30th June, 1984

527|Del|84. Bal Krishan Gupta, "Leakage detector for L P Gas Equipment, fixtures of fittings".

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 25th June, 1984

455|Mas|84. E. T. Mathai. A process for the treatment of spent liquor obtained from C10<sub>2</sub> generator.

456|Mas|84. N. P. Thampi. Electrical phase changing system.

457|Mas|84. Stauffer Chemical Company. A method of preparing triacylsulfoxonium salt of N-phosphonomethyl. (Divisional to Application No. 1214|Cal| 81).

The 26th June, 1984

458|Mas|84. Indian Institute of Technology. A method of, and an apparatus for heating metals including their alloys.

459|Mas|84. Ingenieursbureau A.P. and Mantra Tube Ltd. Device for welding tubes. (January 19, 1984).

460|Mas|84. Monosolar, Inc. Method of forming ohmic contacts.

461|Mas|84. Ferag AG. Method of, and apparatus for, producing stacks of flexible flat products, especially printed products.

462|Mas|84. Samim Societa Azionaria Minero-metallurgica S.p.A. Process for the separation of arsenic from acid solutions containing it.

The 27th June, 1984

463|Mas|84. Union Carbide Corporation. Method for reducing surface melt fracture during extrusion of ethylene polymers.

464|Mas|84. Union Carbide Corporation. Process for reducing surface melt fracture during extrusion of ethylene polymers.

465|Mas|84. Aktieselskabet Laur. A manual actuating device for enclosed electrical switches.

466|Mas|84. Minnesota Mining and Manufacturing Company. Done stapler.

The 28th June, 1984

467|Mas|84. Kerr McGee Corporation. Production monitoring system.

468|Mas|84. Vladimir Osredbecki. A switch for a railway turnout or crossing (June 29, 1983).

469|Mas|84. Metal Box p.l.c. Apparatus for detecting micro-organisms. (June 29, 1983).

470|Mas|84. U. V. Nayak. An apparatus to demonstrate A.C. and/or D.C. Dynamos.

The 29th June, 1984

471|Mas|84. J. Murali. Murali Turbine.

472|Mas|84. Geophysical Company of Norway A. S. Synchronization of the current supply frequency in digital streamers.

473|Mas|84. Intech Systems Corp. Phono- and electrocardiograph.

The 2nd July, 1984

474|Mas|84. Lummus Crest Inc. Recovery of Hydrogen.

475|Mas|84. Lucas Industries Public Limited Company. Angular position detector. (July 2, 1983).

476|Mas|84. Mobil Oil Corporation. Viscosity index improvement in dewaxed lube base stock by partial desulfurization in hydrotreat bed.

477|Mas|84. Mobil Oil Corporation. Combination process for making improved lubricating oils from marginal crudes.

478|Mas|84. Gerhard Muller-Spath. Process for producing a casting mould and cast members.

The 3rd July, 1984

479|Mas|84. The United Planters' Association of Southern India. A composition to pretreat cuttings such as tea cuttings, semi-hard wood cuttings of orchard flower crops and a process for preparation thereof. (Division to Application No. 51|Mas|82).

480|Mas|84. Institut Francais Du Petrole. A device for anchoring a probe in a well, by opening mobile arms.

481|Mas|84. Monsanto Company. Heat recovery from concentrated sulphuric acid.

482|Mas|84. Contraves Italiana S.p.A. Multi-shaped-beam reflector antenna.

The 4th July, 1984

483|Mas|84. Rhone-Poulenc Chimie De Base. Apparatus for taking liquid samples.

484|Mas|84. AEPLC. Aluminium based bearing alloys. (July 5, 1983).

485|Mas|84. Rhone-Poulenc Chimie De Base. Production of phosphoric acid.

The 5th July, 1984

486|Mas|84. Allied Corporation. A filter electrical connector.

487|Mas|84. Commonwealth Scientific and Industrial Research Organization & Vida-Weld Pvt. Limited, Composite metal articles. (July 5, 1983).

488|Mas|84. Indian Institute of Technology. A method of preparing a foundry sand composition and a mould or core therefrom.

The 6th July, 1984

489|Mas|84. Tetra Pak International AB. A method and an arrangement for the detection by photoelectric means of markings made on a travelling material web provided with printed decoration.

490|Mas|84. BBC Brown, Boveri & Company Limited. Alternating current machine drive.

491|Mas|84. CIBA-Geigy AG. Process for the production of benzanthrone.

The 7th July, 1984

492|Mas|84. Pont-A-Mousson S.A. Method and apparatus for continuous casting of cast-iron pipes comprising a socket.

#### ALTERATION OF DATE

153801. (392|Bom|83) Aut dated to 29th October, 1980.

153811. (746|Del|82) Aut dated to 3rd October, 1979.

#### COMPLETE SPECIFICATION ACCEPTED

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CLASS : 37A+B+C.

153733

Int. Cl. B04b 9/00.

#### IMPROVEMENT IN OR RELATING TO A CONTINUOUS CENTRIFUGAL MACHINE.

Applicants : THE WESTERN STATES MACHINE COMPANY, AT 1798 FAIRGROVE AVENUE, HAMILTON, OHIO 45012, U.S.A.

Inventors : JOSEPH BERNARD BANGE AND DONALD LEE HURLEY.

Application No. 63|Cal|81 filed on January 20, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

Improvements in or relating to a continuous centrifugal machine including a rigidly fixed base structure, a bearing housing, a normally vertical basket shaft journaled for rotation on bearings in said bearing housing, a basket secured

to the upper end of said shaft for rotation therewith a stationary curb wall surrounding said basket, means for resiliently coupling said bearing housing on said base structure so as to permit gyration of said basket about a point on the axis of said shaft, and rotary drive means including a motor mounted to one side of said curb wall and means connecting said motor with the lower end of said shaft for rotating said basket, said improvement comprising (A) improved connecting means comprising a driven belt pulley mounted for rotation in a fixed position beneath and substantially coaxially with said basket shaft;

driving belt means connecting said pulley with a driving pulley driven by said motor;

a stub shaft carried by said driven pulley for rotation therewith and substantially aligned with said basket shaft; and

coupling means interconnecting said stub shaft and the lower end of said basket shaft for directly transmitting torque yet permitting angular and parallel misalignment therebetween, whereby moment loads of said belt means are isolated from said bearing housing mounting means and gyration of said basket shaft does not vary the moment loads of said driven pulley on said belt means and/or (B) an upwardly facing radial support ring mounted on said base structure inside said curb wall and surrounding said housing mounting means and an annular chambering unit supporting on said support ring, said chambering unit including a radial annular base wall having a downwardly facing surface seated on said support ring, radially spaced inner and outer annular partitions mounted on and extending upwardly from said base wall and having respective upper ends disposed adjacent the lower and upper ends respectively of the said side wall of said basket, and a floor partition extending about and radially spanning the space between said annular partitions, said partitions together forming a liquid collecting chamber directly outside and under said basket wall and spaced radially inward from said curb wall; and means fixing said bearing housing mounting means to portions of said base wall and radially inside said support ring; said bearing housing mounting means, said chambering unit, said bearing housing and said basket constituting a unitary assembly that as a unit is assembleable onto and removable from said support ring inside said curb wall.

Specn. 19 pages.

CLASS : 85C+J & 106.

Int. Cl. F27d 3|00, 3|16, 23|00.

AN IMPROVED TUYERE OR BLOWING LANCE FOR INJECTING POWDERED MATERIAL INTO MOLTEN METAL.

Applicants : SIBIRSKY METALLURGICHESKY INSTITUT IMENI SERGO ORDZHONIKIDZE, OF NOVOKUZNETSK, KEMEROVASKOI OBLASTI, ULITSA KIROVA, 42, USSR.

Inventors : (1) VLADIMIR IVANOVICH SELSKY, (2) JURY PAVLOVICH VASILYAROV, (3) EVGENY MINEVICH GUDKOV, (4) VLADIMIR VLADIMIROVICH MAKRUSHIN.

Application No. 73|Cal|81 filed on January 22, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

An improved tuyere or blowing lance for injecting powdered material into molten metal through a flow of carrier gas comprising a main supply line for the gas carrying the powdered material and means for separating the said powdered material and the gas characterised by the improvement that the wall of the main supply line is provided with one or more openings for withdrawing a part of the carrier gas from the main stream flow thereof, a gas escape channel in communication with said opening, said channel being at an angle to the said supply line, the tuyere optionally including baffles mounted in the terminal portion of the supply line to separate the gas escape channels from the main channel of said supply line, the baffles having a varying thickness increasing towards the respective outlets of the gas escape channels, the main channel having its cross-section varying from circular in the area of the inlets of the gas escape channels to slitlike at the outlet of said supply line.

Specn. 15 pages.

Drgs. 2 sheets.

CLASS : 39P & 123.

153735

Int. Cl. C05c 3|00, C05d 3|00, C011 11|48.

IMPROVED PROCESS FOR THE PRODUCTION OF NP|NPK FERTILIZER WITH BY-PRODUCT GYPSUM WITH GOOD FILTRATION PROPERTIES.

Applicant : THE FERTILIZER (PLANNING & DEVELOPMENT) INDIA LIMITED, C.I.F.T. BUILDINGS, P.O. SINDRI, DIST. DHANBAD, BIHAR, INDIA.

Inventors : BIJOY BHUSAN ROY, SATYENDRA VARMA, ASUTOSH MUKHERJEE, RAM UDAR SINGH, PRADIP KUMAR ROYCHOWDHURY, ANWAR AHMED AND BAISABH GUPTA.

Application No. 75|Cal|81 filed January 22, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A process for the production of NP|NPK fertilizer with by-product gypsum of good filtrable properties which comprises subjecting rock phosphate to digestion with nitric acid (53 to 60 per cent strength) or mixture of nitric acid and phosphoric acid at temperatures between 55 to 80°C, followed by filtering the slurry so obtained and subjecting the filtrate to reaction with ammonium sulphate characterized in that said reaction is carried out in presence of seed crystals of gypsum, thereafter filtering and recovering in a known manner the gypsum so precipitated and thereafter subjecting the filtrate to ammoniation in a known manner for the recovery of NP|NPK fertiliser.

(Specification 11 pages. Drawings Nil).

CLASS : 70C.

153736

Int. Cl. C22b 45|00, C22d 3|00.

A METHOD OF PRODUCING MAGNESIUM FROM MAGNESITE OR DOLOMITE.

Applicant : SULZER BROTHERS LIMITED, CH-8401 WINTERTHUR, SWITZERLAND.

Inventor : NICHOLAS PATRICK WYNN.

Application No. 82|Cal|81 filed January 27, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A method for producing magnesium from magnesite or dolomite, which is calcined and then leached with calcium chloride solution, producing brine from which magnesium chloride or carnallite is crystallised out in a crystallisation process and magnesium is electrolytically separated therefrom in a subsequent drying and melting process, chlorine gas and hydrogen chloride gas liberated during the drying, melting and electrolytic process being subjected to an absorption process using milk of lime as the absorption agent in the presence of a catalyst, the end product being calcium chloride solution; in which the gas mixture (air, chlorine and carbon dioxide) produced during electrolysis is continuously washed with milk of lime in a first absorption step at a pH above 10, the resulting suspension is freed from solids in a first separating step and the hypochlorite ions therein are decomposed to chloride ions in a subsequent catalytic reaction step at a pH above 10 using a nickel, iron, cobalt or copper-containing catalyst; the catalyst is then separated in a second separating step and purified in a processing step and returned to the catalytic reaction step; the solution obtained in the second separating step is used in a second absorption step after adding milk of lime, for preliminary washing at a pH below 3 of the gas (containing chlorine, hydrogen chloride, carbon dioxide and air) coming from the melting process, which gas is then supplied to an absorption step at a pH above 10 in the presence of milk of lime; in a third absorption step, the solution flowing from the second absorption step, after solids separated in the first separating step have been added, absorbs at a pH below 3 the hydrogen chloride from the gases (containing hydrogen chloride, carbon dioxide and air) leaving the dryer; before the third absorption step, any oxychloride compounds

in the solution are reduced to chloride ions, using a reducing agent; the solution leaving the third absorption step is then neutralised by adding milk of lime and solids are separated in a third separating step, thus producing a 30—40% calcium chloride solution containing not more than 50 ppm iron ions and not more than 50 ppm chlorate ions; and the last-mentioned solution is supplied to the magnesite and/or dolomite leaching process.

(Specification 15 pages. Drawings 2 sheets).

CLASS : 32B.

153737.

Int. Cl. C07c 1|16.

**A PROCESS FOR THE PREPARATION OF HYDROCARBON MIXTURE FROM A MIXTURE OF CARBON MONOXIDE AND HYDROGEN.**

Applicants : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDTLAAN 30, THE HAGUE, THE NETHERLANDS.

Inventors : MICHAEL ADRIAAN MARIA BOERSMA AND SWAN TIONG SIE.

Application No. 84|Cal|81 filed on January 27, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 claims.

A process for the preparation of a hydrocarbon mixture, containing aromatic hydrocarbons in two steps characterized in that a mixture of carbon monoxide and hydrogen with an  $H_2/CO$  molar ratio of 1.0—2.0 is contacted with a trifunctional catalyst combination containing one or more metal components with catalytic activity for the conversion of an  $H_2/CO$  mixture into organic compounds selected from acyclic hydrocarbons and acyclic oxygen containing hydrocarbons, one or more metal components with catalytic activity for the conversion of an  $H_2O/CO$  mixture into an  $H_2/CO_2$  mixture and a crystalline silicate which has the following properties after one hours calcination in air at 500°C.

(a) an X-ray powder diffraction pattern showing as strongest lines the 4 lines stated in Table A :

TABLE A

$d(A^\circ)$	Relative intensity
11.1 $\pm$ 0.2	VS
10.0 $\pm$ 0.2	VS
3.84 $\pm$ 0.07	S
3.72 $\pm$ 0.06	S

wherein the letters used have the following meanings:

VS = very strong; S = strong;

(b) the silicate, the composition of which is expressed in moles of the oxides, comprises oxides of hydrogen, alkali metal and/or alkaline-earth metal and silicon, and one or more oxides of a trivalent metal A selected from the group formed by aluminium, iron, gallium, rhodium, chromium and scandium. The  $A_2O/SiO_2$  molar ratio (m) being less than 0.1, and optionally an element selected from the group formed by manganese, calcium, magnesium and titanium,

and in that to at least the  $C_2$ -fraction of the reaction product from the first step, water is added and is contacted in a second step with a byfunctional catalyst combination containing one or more metal components with catalytic activity for the conversion of an  $H_2/CO$  mixture into acyclic hydrocarbons, which metal components have been selected from the group formed by cobalt, nickel and ruthenium and also one or more metal components with catalytic activity for the conversion of an  $H_2O/CO$  mixture into  $H_2/CO_2$  mixture.

Specn. 25 pages.

Draw. Nil.

CLASS : 173A.

153738.

Int. Cl. B05b 2|00, B65d 83|14.

**A ONE-PIECE INTEGRAL MOLDED VALVE ACTUATOR.**

Applicant : PRECISION VALVE CORPORATION, 700 NEPPERHAN AVENUE, YONKERS, NEW YORK 10703, UNITED STATES OF AMERICA.

Inventor : CHRISTIAN BAYER.

Application No. 130|Cal|81 filed February 4, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(7 claims)

A one-piece integral molded valve actuator for a pressurized aerosol dispenser, said actuator having means to mount the actuator on the valve of the dispenser in communication with the product discharge passage of the valve, a generally circular swirl chamber molded within the actuator, a passage molded within the actuator in communication with valve discharge passage and extending to an entrance aperture of the swirl chamber, the entrance aperture being located to introduced product circumferentially of the swirl chamber, the swirl chamber having a front wall with a discharge orifice extending from the front actuator, and rear wall normal to the central axis of the swirl chamber, the improvement which comprises a sloped mound on the rear wall protruding into the swirl chamber centrally thereof, and the discharge orifice being located off-center of the swirl chamber axis and remote from the entrance aperture.

(Specification 8 pages. Drawing 2 sheets).

CLASS : 28B.

153739.

Int. Cl. F23d 21|00.

**AN IMPROVED HOTPARTICLE ACCELERATING DEVICE FOR USE IN A COMBUSTION GUN OR TORCH.**

Applicants : EUTECTIC CORPORATION, OF 40-40 172ND STREET, FLUSHING, NEW YORK 11358, UNITED STATES OF AMERICA.

Inventor : ANTHONY J. ROTOLICO.

Application No. 224|Cal|81 filed March 2, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(20 claims)

An improved hot-particle accelerating device, for use in a combustion gun or torch, having a cylindrical flame spraying nozzle adapted for axial discharge of powder material centrally of a surrounding annulus of axially discharged combustible gas mixture, comprising circumferentially continuous manifolding means including an annular ring adjustably rotatably mounted to and surrounding said nozzle, a plurality of angularly spaced jet conduits carried by said ring and communicating with said manifolding means, said jet conduits extending in the downstream direction and discharging downstream from locations downstream with respect to said nozzle, and pressure-fluid supply means for said manifolding means, said last-defined means including a pressure-fluid supply connection that is fixedly mounted to said nozzle.

(Specn. 19 pages. Drgs. 2 sheets).

CLASS 32F<sub>1</sub>(<sub>a</sub>).

153740.

Int. Cl. C07c 143|00.

**PROCESS FOR PRODUCING MONOALKALI SALT OF 1-AMINO-8-NAPHTHOL-3, 6-DISULFONIC ACID.**

Applicant : SUMITOMO CHEMICAL COMPANY, LTD., OF 15, KITAHAMA-5-CHOME, HIGASHI-KU, OSAKA, JAPAN.

Inventor : NORIO KOTERA, HIROMICHI OKABE, FUMIO OI, SHUNICHI HAYAKAWA, HIROSHI KORE-NAGA, TATSUJI NUNO, KIKUMITSU INOUE.

Application No. 241|Cal|81 filed on 6th March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rule, 1972) Patent Office, Calcutta.

(5 claims)

An improved process for producing a monoalkali salt of 1-amino-8-naphthol-3, 6-disulfonic acid, which comprises the steps of (1) alkali fusion of 1-aminonaphthalene-3, 6, 8-trisulfonic acid or an alkali salt thereof using an alkali hydroxide to obtain an alkali fusion mass containing an alkali salt of 1-amino-8-naphthol-3, 6-disulfonic acid, and (2) acidification of the alkali fusion mass to obtain the monoalkali salt of 1-amino-8-naphthol-3, 6-disulfonic acid wherein the improvement comprises in carrying out the alkali fusion in stages such that the alkali concentration at the beginning of the alkali fusion is in the range of 20 to 29 per cent by weight of total alkali while the alkali concentration at the end of the alkali fusion is in the range of 25 to 35 per cent by weight of total alkali and wherein the alkali concentration during alkali fusion is, if desired, preferably between 15 to 45 per cent by weight of the total alkali.

(Specification 29 pages. Drawings nil).

CLASS : 102B+D, 134D 153741

Int. Class : B 62d 11|18.

#### HYDRAULIC STEERING SYSTEM FOR FULL TRACK VEHICLES.

Applicant : SPERRY CORPORATION OF 1401 CROOKS ROAD TROY, MICHIGAN 48084, UNITED STATES OF AMERICA.

Inventor : HENRY DELAND TAYLOR.

Application No. 258|Cal|81 filed on 10th March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(8 claims)

A hydraulic steering system for full-tracked vehicles comprising a pair of reversible hydraulic motors adapted to drive a pair of respective vehicle tracks, a bi-directional valve for each hydraulic motor, four manually operable valve control units adapted to be connected to a source of pilot pressure each said valve control unit being operable to produce an output proportional to manual displacement thereof, one of said valve control units being connected to said bi-directional valves such that operation of said one valve control unit functions to actuate said bi-directional valve to a first position to operate both said hydraulic motors in said first or forward track driving direction, a second of said valve control units being connected to said bi-directional valves such that operation of said second valve control unit functions to actuate said bi-directional valve to a second position to operate said hydraulic motors in a second or reverse track driving position, a third valve control unit being connected to one of said bi-directional valves which controls one of said hydraulic motors such that operation of said third valve control unit actuates said one bi-directional valve to operate said one hydraulic motor in a second or reverse direction.

One of said valve control units being connected to said bi-directional valves such that operation of said one valve control unit functions to actuate said bi-directional valve to a first position to operate both said hydraulic motors in said first or forward track driving direction, a second of said valve control units being connected to said bi-directional valves such that operation of said second valve control unit functions to actuate said bi-directional valve to a second position to operate said hydraulic motors in a second or reverse track driving position, a third valve control unit being connected to one of said bi-directional valves which controls one of said hydraulic motors such that operation of said third valve control unit actuates said one bi-directional valve to operate said

one hydraulic motor in a second or reverse direction, a fourth of said valve control units being connected to the other of said bi-directional valves which controls the other of said hydraulic motors such that operation of said fourth valve control unit functions to actuate said other bi-directional valve to control other hydraulic motor in a second or reverse direction, said third valve control unit being also connected to permit flow when operated to said one of said other bi-directional valve to actuate said bi-directional valve in a direction to operate its respective hydraulic motor in a forward direction, valve means associated with each end of each bi-directional valve and operable to sense the greater of the pilot pressures and permit the greater pressure to be applied to the bi-directional unit when two valve control units are operated simultaneously and tend to direct two pilot pressures toward the same end of a bi-directional valve unit.

(Specification 23 pages. Drawings 3 sheets).

CLASS : 35C & 90C

153742

Int. Cl. B 28c 5|00.

#### METHOD OF MAKING AN ASBESTOS-FREE, GLASS FIBRE-REINFORCED CEMENT COMPOSITE PRODUCTS.

Applicant : TEGRAL TECHNOLOGY LIMITED, LOWER PEMBROKE STREET, DUBLIN 2, REPUBLIC OF IRELAND.

Application No. 289|Cal|81 filed in March 17, 1981.

Inventor : WILLIAM HENRY BRUNT & KENNETH CYRIL THATCHER.

Convention date 18th March, 1980, No. 552|80) Ireland.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Calcutta.

(17 claims)

A method of making an asbestos-free glass fibre reinforced cement composite product comprising the steps of mixing, in a high shear mixing apparatus, cement and water to form a flowable slurry having a water : solids ratio of 1 : 1 to 2 : 1; mixing, in a static mixing apparatus, the slurry with glass fibre in a proportion to provide from 1% to 10% by weight of glass fibre in the cement composite product, which mixing is effected by feeding the glass fibre on to the exposed surfaces of the slurry while the slurry is fed along a downwardly inclined conduit, changing the flow path by causing the slurry to pass on to a second downwardly inclined conduit directed in the opposite direction from the first conduit as seen from above, so that the initially exposed surface of the slurry then lies at or near the bottom of the flow and the exposed surface becomes covered by a substantial depth of the slurry, depositing the glass fibre containing slurry on a water-permeable web, draining the water from the slurry through the web to leave the glass fibre and cement thereon, and curing the cement to form the glass fibre reinforced cement composite product.

(Specification 32 pages. Drawings 3 sheets).

CLASS 14A<sub>2</sub>

153743.

Int. Cl. H 01m 39|00.

#### IMPROVED LEAD-ACID STORAGE BATTERY.

Applicant : GOULD INC., OF 10 GOULD CENTER ROLLING MEADOWS, ILLINOIS-60008, UNITED STATES OF AMERICA FORMERLY OF E-1200 FIRST NATIONAL BANK BLDG., ST. PAUL, MINNESOTA, U.S.A.

Inventor : GEORGE WENJUNG MAO, PURUSHOTTAMA RAO, FREDERICK LEON MARSH AND FRANCIS MICHAEL DUNLEVY.

Application No. 559|Cal|81 filed in May 26, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(3 claims)

In an improved Lead-acid storage battery having a plurality of pasted plates made from lead oxide, the improvement comprising at least some of said plates being formed from lead oxide doped with from about 0.01 to about 0.07 per cent copper based upon the total weight of said lead oxides.

(Specification 20 pages. Drawings 2 sheets).

CLASS : 102B.

153744.

Int. Cl. F 15b 7/00.

**A HYDRAULIC SYSTEM SUCH AS POWER STEERING SYSTEM FOR AUTOMOTIVE VEHICLES.**

Applicant : SPERRY CORPORATION, OF 1401 CROOKS ROAD TROY, MICHIGAN 48084, U.S.A.

Inventor : ALBIN JOSEPH NIEMIEC.

Application No. 625|Cal|81 filed in June 10, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(5 claims)

A hydraulic system such as power steering system for automotive vehicles comprising a fixed displacement pump driven by a prime mover operable at variable speeds wherein it is desired to have a minimum volumetric flow, a flow control valve operable to return a portion of the hydraulic fluid from the outlet of the pump to the inlet of the pump and draw fluid from a reservoir to replenish the fluid at the inlet when the pump is operated at higher speeds, wherein there is provided a passage extending from the reservoir and communicating with the inlet of the pump upstream from the system flow return drawn from the reservoir by the flow control valve and normally isolated during low speed operation from the bypass flow by the flow control valve thereby providing auxiliary flow to the inlet.

(Specification 9 pages. Drawing one sheet).

CLASS : 32F3(c).

153745

Int. Cl. C07c 31/00.

**PROCESS FOR THE PRODUCTION OF LOWER ALCOHOLS.**

Applicant : DEUTSCHE TEXACO AG, OF UBERSEER-ING 40, D-2000 HAMBURG 60, FEDERAL REPUBLIC OF GERMANY.

Inventor : DR. WILHELM NEIER, WERNER WEBERS AND DR. WOLF JURGEN OSTWALD.

Application No. 647|Cal|81 filed June 15, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(4 claims)

Process for the continuous production of a lower alcohol with 3 to 5 carbon atoms, especially of isopropanol or secondary butyl alcohol, by catalytic hydration of a lower olefin with 3 to 5 carbon atoms, especially propene or n-butene in the presence of a strongly acidic cation exchange resin catalyst as herein defined arranged as a fixed bed in a single-tube reactor and through which the reactants flow upwardly at temperatures of 120°C to 180°C and pressures of 40 to 200 bar, the water/olefin molar ratio being 0.5 to 10.0 : 1.0 characterized by presaturating said olefin with 0.3 to 1.8 percent by weight water, based on the weight of the olefin, prior to charging the olefin to the reactor.

Specn. 10 pages.

Drgs. 2 sheets.

CLASS : 32F4-G, 55E.

153746

Int. Cl. C07c 103/00.

**PROCESS FOR THE PREPARATION OF AMIDE DERIVATIVES OF P-ISOBUTYL-PHENYL-PROPIONIC ACID.**

Applicant : LABORATORI PROPHIN S.P.A. VIA BINDA 21 20143 MILANO, ITALY.

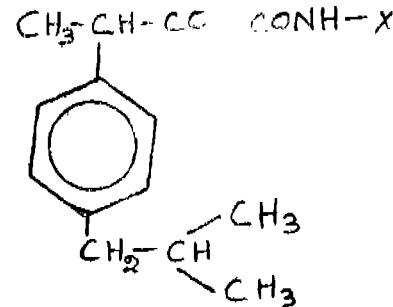
Inventor : ALBERTO REINER.

Application No. 809|Cal|81 filed July 20, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(3 claims)

A process for the preparation of an amide derivative of the p-isobutyl-phenyl-propionic acid, having general formula 1



wherein X represents the radical of a substituted amine of the group comprising lysine, meta trifluorotoluidine, glutamic acid and aspartic acid comprising chlorinating p-isobutyl-phenyl-propionic acid with an excess e.g. 4.5 mole (excess), of a chlorinating agent such as herein described and reacting the resulting chloride with appropriate substituted amine in a reaction medium selected from alkalinised water and pyridine, at low temperatures.

Specn. 15 pages.

Drgs. One sheet.

CLASS : 14A-1.

153747.

Int. Cl. H01m 1/00.

**VENT PLUGS FOR BATTERIES.**

Applicant : GOULD INC., OF 10 GOULD CENTER, ROLLING MEADOWS, ILLINOIS 60008, U.S.A., FORMERLY OF E-1200 FIRST NATIONAL BANK BLDG., ST. PAUL, MINNESOTA, U.S.A.

Inventor : BERNARD N. SPEEGELBERG.

Application No. 992|Cal|81 filed September 3, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(31 claims)

A vent plug for venting gases through an opening in a battery top wall, said vent plug comprising : a body having an annular sidewall adapted to be fitted to the battery top wall and extend through said opening therein; an insert fitted within said body, said body and insert defining an annular gas flow chamber and means defining longitudinally extending dividers for dividing said flow chamber into a plurality of narrow elongated flame-arresting gas flow passages, said means comprising wall means formed integrally with at least one of said body and insert and in fitting engagement with the other of said body and insert members.

Specn. 18 Pages.

Drgs. one sheet.

CLASS : 127D.

153748.

Int. Cl. F16h 19/00.

**APPARATUS FOR GENERATING LINEAR MOTION.**

Applicants : WORCESTER CONTROLS (U.K.) LIMITED, OF BURREL ROAD, HAYWARDS HEATH, SUSSEX, ENGLAND.

Inventor : BRIAN EDWARD PRINCE.

Application No. 994|Cal|81 filed September 4, 1981.

Convention date 4th September, 1980 (28627|80) U.K.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

## (17 claims)

Apparatus for generating linear motion comprising a body, at least one cylinder mounted on and projecting from one said of said body, a piston in said cylinder, an actuating beam extending from said piston into said body and having movable surfaces in sliding contact with fixed surfaces in said body to define a bearing by which said piston and actuating beam are guided in linear motion, and means for introducing pressure fluid into said cylinder to actuate said piston, said means including :

(a) a fixed port opening through a fixed surface of said linear bearing and communicating within a duct formed within said body by which pressure fluid may be supplied;

(b) a movable port opening through a movable surface of said linear bearing and communicating through a duct formed within said actuating beam and through the crown of said piston with the space in said cylinder above said piston; and

(c) a resilient sealing member between said fixed and moving surfaces of said linear bearing which member is arranged to maintain a fluid-tight communication between the fixed port and the movable port over their range of relative movement.

Specn. 21 pages.

Drgs. 6 sheets.

CLASS : 158F.

153749.

Int. Cl. B61f 5/12.

**A FRICTION APPARATUS FOR RAILWAY CAR TRUCK TO INDICATE WEAR.**

Applicants : AMSTED INDUSTRIES INCORPORATED, OF 3700 PRUDENTIAL PLAZA, CHICAGO, ILLINOIS 60601, U.S.A.

Inventor : JAMES ALBERT HENKEI.

Application No. 1156|Cal|81 filed October 20, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## (1 claim)

A friction apparatus for a railway car truck to indicate wear comprising

a side frame having a substantially upright column partially defining a bolster opening,

a bolster resiliently supported in a said opening for vertical movement therein, said bolster having top and bottom walls,

a vertical planar surface on said column, a top wall and a guiding surface on said bolster,

a friction shoe comprising a body, a substantially vertical wall, a sloped surface and a spring pocket,

a control spring located in said spring pocket of said friction shoe for urging said friction shoe vertical wall into frictional contact with said column vertical planar surface and said sloped surface into frictional contact with said guiding surface on said bolster,

wherein the substantially vertical wall of said friction shoe has a recessed indicating portion which is below the top wall of said bolster when said friction shoe is within acceptable wear conditions and which extends above said top wall of said bolster so as to be always visible when the vertical and sloped frictional contact surfaces of said friction shoe are worn to such an extent that repairs are indicated.

Specn. 7 pages.

Drgs. 2 sheets.

CLASS : 47A.

153750.

Int. Cl. C10b 47/08, 47/10.

**IMPROVEMENT IN A PROCESS FOR THE PRODUCTION OF SPECIAL QUALITY LOW ASH METALLURGICAL COKE.**

2—197GI|84

Applicant & Inventor : ASOK RANJAN DASGUPTA, OF "SNEH MILAN", TELEPHONE EXCHANGE ROAD, DHANBAD-826001, BIHAR, INDIA.

Application No. 1159|Cal|81 filed October 20, 1981.

Addition to No. 1140|Cal|78 dated October 20, 1978.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

## (6 claims)

A process for the production of special quality low ash metallurgical coke according to Indian Patent No. 149600, wherein the improvement comprises pulverising tertiary coal or low ash coal from lower ranks, charging the pulverised mass into a preheated chamber, raising the temperature of the said chamber upto 1250°C, continuing the heating in reducing condition, and cooling the heated mass thereafter.

Specn. 9 pages.

Drgs. Nil.

CLASS : 55F.

153751.

Int. Cl. C12d 13/00.

**"METHOD FOR PRODUCING AN  $\alpha$ -TYPE INTERFERON".**

Applicant : BIOGEN N.V., OF 24 HANDELSKADE, WIJLEMSTAD, CURACAO, NETHERLANDS, A COMPANY ORGANISED UNDER THE LAWS OF THE NETHERLANDS ANTILLES.

Inventor : CHARLES WEISSMANN.

Application for patent No. 116|DEL|80 filed on 19th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## (8 claims)

A method for producing and  $\alpha$ -type interferon comprising the steps of culturing such as herein described a host transformed with a recombinant DNA molecule characterised by a NDA sequence selected from the group consisting of

(a) the DNA inserts of Z-pBR322 (Pst)|HcIF-4C, Z-pBR322 (Pst)|HcIF-2h, Z-pBR322 (Pst)|HcIF-SN35, Z-pBR322 (Pst)|HcIF-SN42 and Z-pKT287 (Pst)|HcIF-2h-AH6,

(b) DNA sequences which hybridize to any of the foregoing DNA inserts and which code for a polypeptide of the IFN- $\alpha$ -type, and

(c) DNA sequences which are degenerate as a result of the genetic code to the DNA sequences and inserts defined in (a) and (b) and which code for a polypeptide of IFN- $\alpha$ -type,

said DNA sequence being operatively linked such as herein described to an expression control sequence in said recombinant DNA molecule.

Compl. Specn. 67 pages.

Drgs. 6 sheets.

CLASS : 1591, F.

153752.

Int. Cl. F21q 1/00.

**"A TAIL-BOARD".**

Applicant : DIRECTOR GENERAL, RESEARCH DESIGNS & STANDARDS ORGANIZATION, MINISTRY OF RAILWAYS, GOVERNMENT OF INDIA, LUCKNOW-226011, INDIA, AN INDIAN NATIONAL.

Inventor : SATYENDRA KUMAR.

Application for patent No. 120|DEL|80 filed on 20th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(3 claims)

A tail-board for use with a railway vehicle consisting of a plate having turned in edges along the end surfaces thereof, a reinforcement housed within said turned in edges, the reverse side of said board having a bracket and handle, said handle has a reinforcement arm and a base arm, the distance between said reinforcement arm and base arm being shorter than the distance between the upper surface of the handle and base arm.

Compl. Specn. 6 pages.

Drgs. 1 sheet.

CLASS : 119D.

153753.

Int. Class : D03d 47/00.

"A POWER LOOM".

Applicant : SHRI GAUR DHAM TRUST (REGD.), SHRI RADHAKUND, DISTT. MATHURA, U.P., INDIA. AN INDIAN TRUST.

Inventor : SRI NARHARI DAS.

Application for Patent No. 121/Del/80 filed on 20th February, 1980.

Complete specification left on 30th January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(12 claims)

A power loom comprising a first rapier and a second rapier, a yarn package consisting of a cone or cheese for feeding west yarn to said first rapier and transferred to said second rapier, a slay having a feed for effecting a beating action characterised in that said first and second rapiers are mounted on said slay with a thread cutter provided in association thereto at the feeding end.

(Provisional specification 6 pages).

(Complete specification 15 pages. Drawings 3 sheets).

CLASS : 130F.

153754.

Int. Class : C22b 9/00.

"A PROCESS FOR THE RECOVERY OF METAL VALUES".

Applicant : UOP INC., A CORPORATION ORGANISED EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA. OF TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS 60016, UNITED STATES OF AMERICA.

Inventors : JAMES ALLEN BRADBURY, RICHARD TAE-SUNG UM, FRANK ANDERSON STEPHENS, JOHN CLARKE STAUFFER AND EUGENE OAK.

Application for Patent No. 124/Del/80 filed on 20th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(8 claims)

A process for the recovery of metal values from a metal containing material of the kind such as herein described wherein said metal containing material is subjected to a reducing roast in an appropriate reducing atmosphere in contact with at least one additive of the kind such as herein described, cooling the reduced metal bearing source, extracting the cooled reduced metal bearing source and recovering the resultant metal value, the improvement comprising in utilizing a fresh metal bearing source feed as a scrubbing material to dry scrub the off-gas stream from said reductive roast to remove additives present in said stream.

(Complete specification 19 pages. Drawing 1 sheet).

CLASS : 89.

153755.

Int. Class : B66b 5/00, G01b 3/00.

"APPARATUS FOR TESTING SLOTTED, MAGNETIZABLE METAL TAPES".

Applicant : OTIS ELEVATOR COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW JERSEY, UNITED STATES OF AMERICA, LOCATED AT 245 PARK AVENUE, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

Inventor : HERBERT RUDOLF WEISCHFDEL.

Application for Patent No. 125/Del/80 filed on 20th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(6 claims)

Apparatus for testing slotted magnetizable metal tapes to locate cracks therein which comprises

means for magnetizing a section of the tape;

means for sensing magnetic flux radiating from cracks and slots in the magnetized tape, said means comprising means for simultaneously sensing at two positions at different distances from the tape surface flux radiating from the cracks and slots in the tape and for providing, for each position, a signal reflecting the sensed flux, means connected to said simultaneously sensing means for summing said signals so as to remove components that are common to each signal for providing a difference signal comprising substantially the components caused by the flux from a said crack; and means connected to said summing means for deriving a signal representing the average level of said difference signal and for summing said average level signal with said difference signal and predetermined threshold for providing a crack identification signal comprising substantially a signal component caused by the flux from the crack; and

means for providing an indication of the presence of a crack in a portion of the tape in response to said crack identification signal comprising means connected to said signal deriving means for comparing said crack identification signal with a predetermined reference signal and adapted to provide an output signal to resetable means connected to said comparing means, said resetable means being adapted on receiving said output signal to operate an indicator device such as a light or alarm or both to which it is connected.

(Complete specification 26 pages. Drawings 4 sheets).

CLASS : 32E, 128C.

153756.

Int. Class : A61c 11/00, C08f 11/00.

"PROCESS FOR THE PREPARATION OF A SUBSTANTIALLY NON-HYDROPHILIC POLYURETHANE ELASTOMER".

Applicant : POLYTHIETICS, INC., A CORPORATION OF MISSOURI, OF 87-86 NORTH BROADWAY, ST. LOUIS, MISSOURI, UNITED STATES OF AMERICA.

Inventors : RALPH WILLIAM COLPITTS AND JAMES HAROLD WFNDT.

Application for Patent No. 126/Del/80 filed on 21st February, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(7 claims)

A process for the preparation of a substantially non-hydrophilic polyurethane elastomer which comprises reacting a polyisocyanate such as herein described and an aromatic polyisocyanate such as herein described in which the isocyanate groups are bonded directly to the aromatic nucleus, the resultant elastomer having a hardness of not less than about Shore D60, and being adapted for formation of the tooth-holding portion of an artificial denture.

(Complete specification 17 pages).

CLASS : 182D, 80H.

153757.

Int. Class : B01d 21/00, C13d 3/00.

**"A CLARIFIER FOR LIQUIDS CONTAINING PARTICULATE SOLID MATERIALS SUSPENDED THEREIN".**

Applicant : ANIL CHANDRA RAHA, OF 10/429 KHALASI LINE, KANPUR-1, INDIA AN INDIAN NATIONAL.

Inventor : ANIL CHANDRA RAHA.

Application for Patent No. 127/Del/80 filed on 22nd February, 1980.

(Complete specification left on 23rd May, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(7 claims)

A clarifier for liquids containing particulate solid materials suspended therein comprising a chamber having at least two compartments by a partition wall extending between a pair of opposite walls of the chamber, an inlet with the chamber and extending along at least a part of the length of each of the said compartments, an outlet provided in each of a pair of opposite walls, at least one tray provided at the base of the chamber for collecting the mud settling therein, a mudwell disposed below the or each tray and a rotatable shaft with scraper blades located within the mudwell for compacting the mud collected in the or each tray.

(Provisional specification 7 pages).

(Complete specification 11 pages. Drawing 1 sheet).

CLASS : 182D, 80H.

153758

Int. Class : B01d 21/00, C13d 3/00.

**"A CLARIFIER FOR LIQUIDS CONTAINING PARTICULATE SOLIDS SUSPENDED THEREIN".**

Applicant : ANIL CHANDRA RAHA, OF 10,429 KHALASI LINE, KANPUR-1, INDIA, AN INDIAN NATIONAL.

Inventor : ANIL CHANDRA RAHA.

Application for Patent No. 128/Del/80 filed on 22nd February, 1980.

(Complete specification left on 23rd May, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(10 claims)

A clarifier for liquids containing particulate solid materials comprising a chamber, an inlet provided along at least a part of the length of at least one of the sidewalls of said chamber for introduction of the juice to be treated, an outlet or outlets provided at or along the opposite side wall or walls, at least one tray provided near or at the base of said chamber for collecting the mud or separated solid material, a mudwell disposed below the said tray and a rotatable shaft having blades extending with the mudwell for compacting the mud collected on the said tray.

Provisional specification 8 pages.

(Complete specification 13 pages. Drawing 1 sheet).

CLASS : 145F.

153759.

Int. Class : B21b 1/00.

**"A METHOD AND APPARATUS FOR PROCESSING FIBROUS VEGETABLE MATERIALS".**

Applicant : PROCESS EVALUATION AND DEVELOPMENT CORPORATION, A DELAWARE CORPORATION, OF 3400 FIRST INTERNATIONAL BUILDING, DALLAS, TEXAS 75270, UNITED STATES OF AMERICA.

Inventor : EDUARDO JOEL VILLAVICENCIO.

Application for Patent No. 129/Del/80 filed on 22nd February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(9 claims)

A method of processing fibrous vegetable materials of the kind such as herein described containing pith for the separation of the pith and the fiber comprising providing at least two separate depithing zones one elevated above the other and a partially depithed fiber washing zone between said depithing zones for the removal of foreign matter and the moistening of said fiber comprising : feeding fragments of crushed fibrous stalks into the inlet end of said first depithing zone, removing pith from said fibers in said first depithing zone while moving said fibers downwardly through said first depithing zone; directing the gravitational fall of the at least partially depithed and separated fibers downwardly from said first depithing zone into the inlet end of a U-shaped fiber washer, conveying said fibers through said washer while continuously and simultaneously immersing said fibers; removing the washed and moist fibers and feeding said washed and moist fibers downwardly by gravity to said additional depithing zone, removing pith from said washed and moist fibers in said additional depithing zone while moving said washed and moist fibers downwardly through said additional depithing zone, and collecting a substantially depithed fiber as it flows from said additional depithing zone.

(Complete specification 11 pages Drawings 4 sheets).

CLASS : 128F.

153760.

Int. Class : A61m 5/30.

**"DEVICE FOR INJECTING LIQUID MEDICINAL SUBSTANCES WITHOUT USING A NEEDLE".**

Applicant : INSTITUT MERIEUX, A FRENCH COMPANY OF 17 RUE BOURGELAT, 69002 LYON, FRANCE.

Inventor : ROBERT CLERC.

Application for Patent No. 131/Del/80 filed on 25th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(18 claims)

A needleless injector comprising, in the cylinder body an intermediate chamber for the medicinal substance, said intermediate chamber being connected through internal passages with the ejection chamber and with a stock compartment for the substance.

(a) an ejection chamber, having a front wall which communicates with the outside of the chamber by means of a narrow ejection passage, and a movable rear wall which consists of an ejecting piston which is extended rearwardly by a piston rod, the said ejection chamber being located at the front end of the said body;

(b) an intermediate chamber;

(c) a valve, controlled by the said piston rod, which makes it possible to open the passage between the intermediate chamber and the ejection chamber, at least during the final part of the return movement of the ejecting piston, and to interrupt the said passage during the final part of the ejection movement of the ejecting piston, the said controlled valve consisting of a sheath in which the piston rod can slide freely between two stops, contact with one of the stops enabling the said piston rod to carry the said sheath along in its return movement, and contact with the other stop enabling the said piston rod to carry the said sheath along in its forward movement whilst at the same time interrupting the passage of the said medicinal substance between the said intermediate chamber and the said ejection chamber;

(d) means for reducing the pressure in the ejection chamber, relative to the intermediate chamber, during the said final part of the return movement of the ejecting piston, so as to ensure filling of the said ejection chamber;

(c) on the said cylinder body, a seat which is intended for receiving a stock compartment for the said medicinal substance;

(f) drive means known per se which actuate the ejecting piston.

(Complete specification 36 pages. Drawing 5 sheets).

CLASS : 116F, 157D.

153761.

Int. Class : B66b 7/02.

"AN ASSEMBLY FOR MOUNTING ELEVATOR GUIDE RAILS".

Applicant : OTIS ELEVATOR COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW JERSEY, UNITED STATES OF AMERICA, LOCATED AT 245 PARK AVENUE, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

Inventors : LU SUN, AND JANIS JOHN CILDERMAN.

Application for Patent No. 132/Del/80 filed on 25th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(3 claims)

An assembly for mounting elevator guide rails on a wall using a plurality of clips attached at spaced apart points on the wall for exerting a hold-down force on a rail surface to force the rail against the wall, the clips being adapted to slide on the rail as the distance between the attachment points changes, said assembly characterized in that each clip comprises :

a substantially rigid retainer, attached to the wall at each attachment point, in a spaced relationship to said rail surface to limit the rail displacement from the surface to a prescribed maximum distance, and

a resilient spacer attached to the wall by said retainer and including a portion, in the space between the retainer and rail surface, for applying, when said retainer is attached to the wall, a resilient hold-down force to said rail surface which forces the rail against the wall.

(Complete specification 12 pages. Drawing 1 sheet).

CLASS : 128A.

153762.

Int. Class : A61m 29/00.

"A PROCESS FOR THE PREPARATION OF IMPROVED CERVICAL DILATORS AND CERVICAL DIALATORS THUS PREPARED".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : JAGAT PAL SINGH SARIN, RANESH CHANDRA NANDI, SATYAWAN SINGH AND NANDOO MAL KHANNA.

Application for Patent No. 127/Del/80 filed on 27th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(7 claims)

A process for the preparation of improved cervical dilators comprising encapsulating compressed rods or cores of *Plantago ovata* seed husk in a cylindrical cloth tube made of a single layer of fine cloth closed from inside with a thin layer of a absorbent fine cellulose powder suspended in aqueous gum acacia solution, further compressing the same to form

a hard cylindrical shaped stick, packing the said stick in a colourless polythene or glass tube and sterilising the same by exposure to gamma radiations characterised in that *Plantago ovata* (Psyllium) seed husk and the like plant or synthetic materials capable of swelling on contact with moisture to form tenacious mucilage used are admixed with a disintegrating agent and an effervescent powder made of a mild organic acid, alkali bicarbonate or an ion-exchange resin.

(Complete specification 11 pages).

CLASS : 206E.

153763.

Int. Class : H05k 1/00.

"AN IMPROVED PROCESS FOR THE PRODUCTION OF PRINTED ELECTRODES FOR USE IN ELECTRO-OPTICAL DISPLAY DEVICES".

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA AND INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : NARENDRA KUMAR, BIRENDRA BAHADUR, VIVEK KESHAORAO KONDAWAR, SUBHAS CHANDRA AND VISHNU GANESH BHIDE.

Application for Patent No. 138/Del/80 filed on 27th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(7 claims)

An improved process for the production of printed electrodes for use in electro-optical display devices comprising screen printing of the desired electrode pattern on a substrate surface with a masking composition as herein described, heating the printed substrate to a desired temperature, chemically treating the heated substrate to obtain a pyrolytic deposition of tin oxide or antimony doped tin oxidizer indium/tin oxide coating on the clear surface of the substrate by treating the same with the desired metal salts in oxidising atmosphere, cooling the treated substrate and washing off the masking composition to obtain the desired printed electrode pattern on the substrate.

(Complete specification 7 pages).

CLASS : 37A.

153764.

Int. Class : B04c 5/00.

"INTRODUCTION TYPE CYCLONIC SEPARATOR".

Applicant : FELIPE SALETE-GARCES, A MEXICAN CITIZEN DOMICILED AT AVENIDA ANO DE JUAREZ 198, GRANJAS SAN ANTONIO, IZTAPALAPA, MEXICO 13, D.F.

Inventor : FELIPE SALETE-GARCES.

Application for Patent No. 139/Del/80 filed on 27th February, 1980.

Appropriate office for opposition proceedings (Rules 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(7 claims)

An induction type cyclonic separator, particularly adapted for handling sticky materials, which comprises lower upwardly diverging frustoconical body means, upper downwardly diverging frustoconical body means, the downwardly opening larger diameter end of said upper frustoconical body means being of a diameter considerably smaller than the diameter of the upwardly opening upper end of said lower frustoconical body means, said upper frustoconical body means being introduced inwardly and downwardly of the upper larger diameter end of said lower frustoconical body means, such that the lower edge of said upper frustoconical body means will be arranged concentrically and inwardly spaced from the inner surface of the lower frustoconical body means and also spaced a distance below the upper edge of said lower frustoconical body means, annular lid means extending between the upper

edge of said lower frustoconical body means and the outer surface of the conical wall of said upper frustoconical body means to close the space therebetween, a plurality of closeable openings extending throughout the circumference of said annular lid means tangential inlet means arranged on the conical wall of said upper frustoconical body means, circular lid means closing the upper end of said upper frustoconical body means, suction duct means vertically arranged at the center of said circular lid means, and outlet means for discharging solid material, arranged at the lower end of said lower frustoconical body means.

(Complete specification 16 pages. Drawing 1 sheet).

CLASS : 130G 153765.

Int. Class : C22b 25/06, 25/08.

"AN IMPROVED PROCESS FOR RECOVERY OF TIN FROM TIN SCRUFF".

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : VISHWANATH ANANT ALTEKAR, PREM CHAND, DIWAKAR JHA.

Application for Patent No. 141/Del/80 filed on 29th February, 1980.

Complete specification left on 23rd April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(4 claims)

An improved process for the recovery of tin from tin scuff comprising treating scuff with silicon or silicon containing fluxes at a temperature in the range of 1200° to 1500°C, skimming the floating slag layer and further refining the remaining melt at a temperature in the range of 232° to 450°C to obtain pure tin metal.

(Provisional specification 4 pages).

(Complete specification 6 pages).

CLASS : 179A, 83B, 206F 153766.

Int. Class : B65b 31/04, G01H 9/12.

"AN ELECTRONIC DEVICE FOR MEASURING THE INTERNAL PRESSURE IN SEALED CONTAINERS".

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : PATHAMADAI ESWARAIYER SANKARA NARAYANAN, PARVATANENI SUDHAKARA RAO, RAMAKRISHNAN SRIDHAR, REVATHIY SETHURAMAN.

Application for Patent No. 142/Del/80 filed on 29th February, 1980.

Complete specification left on 23rd December, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(5 claims)

An electronic device for measuring the internal pressure in sealed containers comprising means for vibrating the top lid of the container to activate a means for sensing the said vibrations and to convert the same into electrical signals as a function of the vacuum inside the can and a signal conditioner means to pass the said signals to a light emission diodes display panel to indicate the variation of the voltage of the said signals, the said sencer and conversion means, the

signal conditioner means and the display panel being connected to each other in series.

Provisional specification 8 pages. Drawing 1 sheet).

(Complete specification 10 pages. Drawings 2 sheets).

CLASS : 50 D, F.

153767.

Int. Class : F25d 23/12, 25/00.

"WATER DISPENSER ARRANGEMENT FOR DOMESTIC REFRIGERATORS".

Applicant : FEDDERS LLOYD CORPORATION PVT. LTD, PUNJ HOUSE, M-13, CONNAUGHT CIRCUS, NEW DELHI-110001.

Inventor : BRIJ RAJ PUNJ

Application for Patent No. 145/Del/80 filed on 1st March, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(5 claims)

A refrigerator or deep freezer provided with a dispensing unit for dispensing water or other similar liquid such as fruit juices, squashes and non-aerated beverages, the said dispensing unit comprising a large capacity plastic water tank attached to the inside wall of the said refrigerator or deep freezer and adapted to release cold water or similar liquid, as aforesaid, brought out to the exterior face of the refrigerator or deep freezer door without opening the said door, by means of a dispenser which contains the tap lever assembly and has a cut away through which the tap drain for the supply of water from the interior is brought to the exterior face of the door, the said dispenser being provided with cover, a sliding lid and a combination of valves and tap, the said valves comprising a butterfly valve and a butterfly valve rubber inserted therem and the said valve being urged by a compressed taper spring retained in its position by a circlip; the said dispenser adapted to be operated from the exterior face of the refrigerator or deep freezer door and which are urged by a compressed spring to ensure proper sealing when the dispenser is not in use and to avoid leakages; beneath the tap is provided a plastic limit box to collect droplets of water.

Complete specification 7 pages. Drawings 3 sheets).

CLASS : 116C.

153768.

Int. Class : B66b 7/06, B66d 3/04.

"AN APPARATUS FOR USE IN JOINING THE ENDS OF A LENGTH OF SHEAVE INSERT".

Applicant : OTIS ELEVATOR COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW JERSEY, UNITED STATES OF AMERICA, LOCATED AT TEN FARMS SPRINGS, FARMINGTON, CONNECTICUT 06032, UNITED STATES OF AMERICA.

Inventors : JANIS JOHN CILDERMAN AND JOSEPH GEORGE KIRINCICH.

Application for Patent No. 148/Del/80 filed on 1st March, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(5 claims)

An apparatus for use in joining the ends of a length of sheave insert by curing material therebetween, the insert having a groove extending the length thereof, comprising :

a base containing an elevated guide thereon for receiving the ends, said guide being adapted to fit congruently into said groove and being substantially straight so that the ends are collinear when disposed thereon, and

a heated mold removably mounted on said base and containing a slot which fits congruently around the ends when said mold is on said base, for applying heat to the material being cured and moulding it to the shape of the insert.

(Complete specification 13 pages. Drawing 1 sheet).

CLASS : 152F.

153769.

Int. Class : C08g 39/00, 41/00, 43/00.

"A PROCESS FOR PRODUCING CONCENTRATED, STABLE, SOLID, UNIFORM COMPOSITION CONTAINING FINELY DISTRIBUTED ADDITIVE IN A POLYMER".

Applicant : SIR PADAMPAT RESEARCH CENTRE, A DIVISION OF J. K. SYNTHETICS LTD., JAYKAYNAGAR, KOTA-324003, RAJASTHAN, AN INDIAN RESEARCH CENTRE.

Inventors : KESHAV VINAYAK DATYE, SACHIDA-NANDA MISHRA, GANGA PRASAD.

Application for Patent No. 149/Del/80 filed on 1st March, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(34 claims)

A process for producing concentrated, stable, solid, uniform composition containing finely distributed additives such as colouring matters, pigment, filler, as hereinbefore described, in a polymer such as polyolefins, chlorinated hydrocarbons, as hereinbefore described, wherein a polymer solution in a suitable solvent, such as water, formic acid, as hereinbefore described, and an additive in a non solvent such as water, organic liquid, inorganic liquid, as hereinbefore described, are mixed and separated together, as the composition which comes out during mixing, on storage and/or on addition of a diluent, as hereinbefore described.

(Complete specification 24 pages).

CLASS : 140B3.

153770.

Int. Class : C10g 25/00.

"A METHOD OF TREATING A SOUR PETROLEUM DISTILLATE FOR CONVERSION OF MERCAPTANS CONTAINED THEREIN TO THE CORRESPONDING DISULFIDES".

Applicant : UOP INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF TEN UOP PLAZA, ALCONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS 60016, UNITED STATES OF AMERICA.

Inventor : DAVID HAROLD JOSEPH CARLSON.

Application for Patent No. 151/Del/80 filed on 3rd March, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(5 claims)

A method of treating a sour petroleum distillate such as herein described for the conversion of mercaptans contained therein to the corresponding disulfides which comprises contacting said distillate with an oxidizing agent and a catalytic composite comprising a metal enolate mercaptan oxidation catalyst such as herein described impregnated on a basic anion exchange resin such as herein described.

(Complete specification 11 pages).

CLASS : 70B.

153771.

Int. Class : B01K 31/04.

"ANODE FOR ALKALI METAL CHLORIDE ELECTROLYSIS".

Applicant : BAYER AKTIENGESELLSCHAFT, A BODY CORPORATE ORGANISED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY OF LEVERKUSEN, BAYERWORK, FEDERAL REPUBLIC OF GERMANY.

Inventors : LOTHAR SESTERHENN AND MILORAD TOMIC.

Application for Patent No. 156/Del/80 filed on 5th March, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(6 claims)

An anode for a cell for alkali metal chloride electrolysis by the amalgam method, comprising at least one copper bolt with a vertical axis as a current supply means, a titanium bridge connected to the copper bolt, said bridge acting as a primary current distributing rail in one horizontal direction and a grid-like or net-like flat horizontal titanium structure welded to the bridge and acting as the electrochemically active anode area, characterized in that the copper bolt has a screw thread in its lower region and is conical below the screw thread, the bridge having a threaded passage for receiving the conical portion of the copper bolt, the copper bolt and bridge being screwed together in a force—and from-looking manner.

(Complete specification 6 pages. Drawing 1 sheet).

CLASS : 130G.

153772.

Int. Class : C22b 21/00.

"APPARATUS FOR REFINING MOLTEN METAL

Applicant : UNION CARBIDE CORPORATION, MANUFACTURERS, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, LOCATED AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

Inventors : JOHN FRANKLIN PELTON.

Application for Patent No. 158/Del/80 filed on 5th March, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(5 claims)

An apparatus for refining molten metal comprising, in combination :

(a) a vessel :

(b) inlet and outlet means for molten metal and gases; and

(c) at least one rotating gas distributing means dispersed in said vessel, said gas distributing means comprising (i) a rotatable shaft coupled to drive means at its upper end and fixedly attached to a vened circular rotor at its lower end; (ii) a hollow stationary sleeve surrounding said shaft and fixedly attached at its lower end to a hollow circular stator; (iii) an axially extending passageway for conveying and discharging gas into the clearance between the rotor and stator, said passageway being defined by the inner surface of the sleeve and stator and the outer surface of the shaft; and (iv) means for providing gas to the upper end of the passageway under sufficient pressure to be injected into the vessel,

characterized in that the stator has a smooth outer surface construction and a ratio of the outside diameter to the root diameter of the rotor in the range 1 : 1 to about 0.8 : 1, said diameters being measured respectively, at the base of the stator and the base of the rotor closest to each other in the apparatus.

(Complete specification 12 pages. Drawings 2 sheets).

CLASS : 157D. (1).

153773

Int. Class : E01b 11/14.

"A RESILIENT CLIP FOR RAIL FASTENING ASSEMBLY".

Applicant : YALLAPRAGADA SAMBASIVA RAO, SENIOR DESIGN ASSISTANT, QUARTER NO. TYPE-III, 87-B, RESEARCH DESIGNS & STANDARDS ORGANISATION COLONY, ALAMBAGH, LUCKNOW-5, UTTAR PRADESH, INDIA, AN INDIAN NATIONAL.

Inventor : YALLAPRAGADA SAMBASIVA RAO.

Application for Patent No. 162|Del|80 filed on 7th March, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(6 claims)

A resilient clip for use in a rail fastening assembly having an insert for holding or supporting said clip, the clip comprising a first and second loop members connected to each other by an integrally formed horizontal member, the first loop members starting from the horizontal member forming an arch shape and further extending downwardly forming a loop, the return leg of the said loop further extending upwardly forming a hump, the said second loop member having a configuration corresponding to that of said first loop member characterized in that the lower surface of the loop section of at least the first loop is flat.

(Complete specification 11 pages. Drawing 1 sheet).

CLASS : 157D(a)(c).

153774

Int. Class : E01b 11/00.

"AN INSERT FOR A RAIL FASTENING ASSEMBLY".  
Applicant : YALLAPRAGADA SAMBASIVA RAO, SENIOR DESIGN ASSISTANT, QUARTER NO. TYPE III, 87-B, RESEARCH DESIGNS AND STANDARDS ORGANISATION COLONY, ALAMBAGH, LUCKNOW-5, UTTAR PRADESH, INDIA, AN INDIAN NATIONAL.

Inventor : YALLAPRAGADA SAMBASIVA RAO.

Application for Patent No. 163|Del|80 filed on 7th March, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(4 claims)

An insert for a rail fastening assembly having a resilient clip, said insert comprising a shank portion extending into a jaw, the base of said jaw having a seat, the upper surface of said jaw having a locating recess, extending into a curved surface characterized in that the said seat has a ledge, at least a part of said ledge extending away from the shank forming an abutment.

(Complete specification 7 pages. Drawing 1 sheet).

CLASS : 129Q.

153775

Int. Class : B23k 9/00.

"A WELDING PROCESS FOR THIN WALLED METAL TUBES OR ANY CLOSED CONTOUR".

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, 18-20, KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA, AN INDIAN COMPANY.

Inventors : SONTI NAGESH, VENKATESAN RAMACHANDRAN AND ARANTHANGI NARAYANAN DWARAKAN.

Application for Patent No. 169|Del|80 filed on 10th March, 1980.

Complete specification left on 2nd March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(3 claims)

A welding process for thin walled metal tubes or any closed contour comprising causing an electric arc to be struck between the two components to be welded thereby causing the faces of the components to be heated up and applying axial force to consolidate the weld, the said arc being rotated by means of a magnetic field around the faces to be welded.

(Provisional specification 8 pages).

(Complete specification 9 pages. Drawing 2 sheets).

CLASS : 107F.

153776.

Int. Class : F02n 11/00.

"IMPROVEMENTS IN OR RELATING TO AN INTERNAL COMBUSTION ENGINE STARTER SWITCH".

Applicant : SOCIETE DE PARIS ET DU RHOE, A FRENCH LIMITED LIABILITY COMPANY, OF 36 AVENUE JEAN-MERMoz, LYON BEMF, RHONE, FRANCE.

Inventor : MAZZORANA.

Application for Patent No. 936|Del|79 filed on 21st December, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110 005.

(20 claims)

An internal combustion engine starter switch of the type including an electric motor to which are connected means for actuating the engine turnover device, said means including a cam driven by said motor, other means being provided to ensure the operation of the motor and the cam and the return of the latter to the starting position at the termination of each starting cycle.

(Complete specification 41 pages. Drawing 7 sheets).

CLASS : 27G 33E, F, 136A, F.

153777

Int. Cl. E04c 2/00, 3/02, B22c 9/00, B29c 1/00, B29d 12/00.

"A MOLD FOR FORMING AN INTEGRATED TRUSS STRUCTURE".

Applicant : HARDJIGG INDUSTRIES, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF MASSACHUSETTS, UNITED STATES OF AMERICA, OF SOUTH DEERFIELD, STATE OF MASSACHUSETTS, UNITED STATES OF AMERICA.

Inventor : JAMES SUTTON HARDJIGG.

Application for patent No. 941|Del|79 filed on 24th December, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(8 claims)

A mold for forming an integrated truss structure comprising:

a first fixed mold member including a plurality of spaced raised flat portions,

a plurality of spaced recessed flat portions, and

a plurality of open grooves connecting said raised and recessed portions, said grooves sloping from said raised portions to said recessed portions,

a second movable mold member including a plurality of spaced raised flat portions, a plurality of spaced recessed flat portions, and a plurality of open grooves connecting said raised and recessed portions, said grooves sloping from said raised portions to said recessed portions, said first and second mold members being positioned in opposing relationship with respect to one another wherein said raised portion of said first member is aligned with said recessed portion of said second member and vice versa, the alignment of said raised and recessed portions defining a junction chamber, and the alignment of said open grooves defining strut beam chambers, and inlet means communicating with said chambers whereby moldable material can be injected thereto.

Compl. specn. 48 pages.

Draws. 13 sheets.

CLASS : 116C.

153778

Int. Cl. B65g 17/00

## "CONVEYOR CHAIN AND TROLLEY ASSEMBLY".

Applicant : JERVIS B. WEBB INTERNATIONAL COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF MICHIGAN, UNITED STATES OF AMERICA, OF WEBB DRIVE, FARMINGTON HILLS, MICHIGAN 48018, UNITED STATES OF AMERICA.

Inventor : CLAYTON CLYDE McDONALD.

Application for patent No. 16|Del|80 filed on 8th January, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(8 claims)

A conveyor chain and trolley assembly comprising a chain center link having pairs of side and end portions symmetrically formed about longitudinal and transverse center lines and defining an open central portion, a pair of trolley brackets each having a base portion, and an attachment member mounted between and connected to the base portions of the pair of trolley brackets, at least one of the elements—consisting of the base portions of the pair of trolley brackets as an element and the attachment member as another element extending through the open central portion of the center link and having transversely projecting shoulders engaging the side portions of the center link; in which a pair of bosses are provided on the pair of side portions of the center link and project from the pair of side portions into the open central portion said bosses being located medially longitudinally of the center link and having inner faces opposed to each other in spaced relation transversely of the center link; and recess means provided on one of said elements are interlockingly engaged by said bosses when side elements are connected said recess means being located medially between the side edges of said one element.

Compl. specn. 12 pages.

Drgs. 3 sheets.

CLASS : 1A.

153779

Int. Cl. C09j 3/00.

"AN IMPROVED TIRE CONTAINING REINFORCING ELEMENTS HAVING A BRIGHT STEEL SURFACE BONDED TO A VULCANIZED RUBBER BY A RUBBER FREE ADHESIVE COMPOSITION".

Applicant : THE GENERAL TIRE AND RUBBER COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, OF ONE GENERAL STREET, AKRON, OHIO 44329, UNITED STATES OF AMERICA

Inventors : EDWARD FLORENT KALAFUS & SATISH CHANDER SHARMA.

Application for patent No. 30|Del|80 filed on 18th January, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(2 claims)

In a tire containing reinforcing elements having a bright steel surface bonded to a vulcanized rubber by a rubber free adhesive composition wherein the vulcanized rubber contains from 2 to 30 phr of a phenolic resin adhesion promoter and from 5 to 60 phr of silica, the improvement characterized by the adhesive comprising a cured phenolic resin from the class consisting of heat reactive phenolic resin, and heat reactive phenolic resin in combination with non-heat reactive phenolic resin, wherein the ratio of the phenol to formaldehyde in the resin is from 1:1 to 1:6.

Compl. specn. 51 pages.

CLASS : 32C.

153780.

Int. Cl. C12d 13/00.

## "PROCESS FOR THE PREPARATION OF CELLULOSE FROM LIGNO CELLULOUS MATERIALS."

Applicant : INDIAN INSTITUTE OF TECHNOLOGY, DELHI, HAUZ KHAS, NEW DELHI-110016, INDIA, AN INDIAN INSTITUTE.

Inventors : TARUN KUMAR GHOSH AND VIKRAM SAHAI.

Application for patent No. 32|Del|80 filed on 19th January, 1980.

Complete Specification left on 12th March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(13 claims)

A process for the preparation of cellulase from ligno cellulosic materials such as rice straw or husk, bagasse or cotton linters, said cellulase being used in the manufacture of ethanol, which comprises in the step of subjecting said cellulose material in the presence of cell mass, such as *Trichoderma reesei*, to the step of bio conversion, separating the cellulase from the insoluble solids obtained from the step of bio conversion, said step of bio conversion being carried out under a cycling of the pH between 3 to 5.2.

Provisional Specification 7 pages.

Complete Specification 14 pages.

CLASS : 40F, 136F; &amp; 981.

153781

Int. Cl. F24j 3/00, B01d 9/00.

## "APPARATUS FOR AND METHOD OF GROWING A CRYSTALLINE BODY OF SILICON FROM A MELT".

Applicant : MOBIL TYCO SOLAR ENERGY CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, AND HAVING A PRINCIPAL PLACE OF BUSINESS AT 16 HICKORY DRIVE, WALTHAM, MASSACHUSETTS, UNITED STATES OF AMERICA.

Inventors : JURIS PAUL KALEJS, BRUCE CHALMERS & THOMAS SURE.

Application for patent No. 53|Del|80 filed on 25th January, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(14 claims)

Apparatus for growing a crystalline body of silicon from a melt so that silicon carbide precipitating from the melt will be distributed symmetrically in the crystalline body, said apparatus comprising a die body made wholly of graphite and having an upper end, a lower end and a capillary said upper end comprising first and second end surfaces spaced from one another so as to provide an opening for said capillary, said first end surface being located at a greater distance from said lower end than said second end surface and a reservoir supply of silicon melt in which said lower end is immersed so that melt substantially fills said capillary by action of capillary rise, whereby when a crystalline body of silicon is grown from a film of silicon melt which is supported by said end surfaces and replenished via said capillary said film will have a first meniscus extending between said body and said first end surface and a second meniscus extending between said body and said second end surface, with said second meniscus being longer end extending lower than said first meniscus.

Compl. specn. 23 pages.

s 1 sheet.

CLASS : 40B, 56B.

153782.

Int. Class : B01j 11/00, C10g 11/00.

**"A PROCESS FOR CRACKING A HYDROCARBON CHARGE STOCK".**

Applicant : UOP INC. A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS 60016, UNITED STATES OF AMERICA.

Inventor : HOSHENG TU

Application for Patent No. 58|Del|80 filed on 29th January, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(15 claims)

A process for cracking a hydrocarbon charge stock which comprises contacting said charge stock at cracking conditions with a catalytic composite comprising a zeolitic crystalline aluminosilicate dispersed in a silica-alumina matrix and having pore sizes in the intermediate range of 100 to 275 Angstroms in diameter, said composite having been manufactured by :

(a) dispersing a zeolitic crystalline aluminosilicate in water to prepare a slurry;

(b) preparing a gelation product by mixing together in an aqueous medium an inorganic aluminium salt, a water soluble anionic polyacrylamide and alkali-metal silicate;

(c) adding said slurry to said gelation product to obtain a slurry gel; and

(d) spray drying said slurry gel at a temperature sufficient to decompose said organic polymer.

(Complete specification 18 pages. Drawing 1 sheet).

CLASS : 102C

153783.

Int. Class : F03b 11/00.

**"A PRESSURIZED FLUID MECHANISM SUCH AS A HYDRAULIC ENGINE".**

Applicant : POCLAIN HYDRAULICS, A FRENCH COMPANY, OF BOITE POSTALE NO. 12, 60410 VERBERIE, FRANCE.

Inventor : JEAN-FRANCOIS CHEYLUS.

Application for Patent No. 59|Del|80 filed on 29th January, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(7 claims)

A pressurized fluid mechanism such as a hydraulic engine with radial pistons, comprising a cam; a cylinder block mounted for rotation, with respect to the cam, about an axis of rotation; at least one piston, mounted for axial sliding in cylinder of the cylinder block; and a girder coupled to said piston, by means of which the piston rests on the cam, the girder being slidably mounted inside a radial cut provided in the cylinder block in extensions of the cylinder and resting against the walls of the cut parallel to the axis of the cylinder, with a removable strip interposed between each wall part of the cut and the part of the girder facing it and being fixed on one of the two parts, wherein the surface of at least one of said one part and the face of the strip, which faces that part, has a degree of roughness which is at least equal to the 2—197GI|84

following values given in reference to the currently enforced norms :

0.25  $\mu$  Ra15  $\mu$  Rt8  $\mu$  Rp

where  $R_a$ ,  $R_t$  and  $R_p$  are as herein before defined.

(Complete specification 10 pages. Drawings 3 sheets).

CLASS : 66D<sub>a</sub>, 64B<sub>a</sub>.

153784.

Int. Class : H01r 33/00.

**"SWITCHED ELECTRICAL CONNECTOR".**

Applicant : CECIL FRANCIS LANGNER AND JUNE BESSIE LANGNER, BOTH OF BROWNS, LEWES ROAD, SCAYNES HILL, NR. HAYWARDS HEATH, SUSSEX, GREAT BRITAIN, BOTH BRITISH SUBJECTS.

Inventor : JUNE BESSIE LANGNER.

Application for Patent No. 75|Del|80 filed on 4th February, 1980.

Convention date 9th February, 1979|79047 (U.K.). 21st March, 1979|7910017 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(16 claims)

A switched electrical connector including a housing, an output connectible to a load member, a switch actuating member manually movable in the housing between "on" and "off" positions selectively, spring means biasing the switch actuating member towards the "off" position, and further spring means which are engaged by the load member when it is connected to the output, the further spring means providing a spring force on the actuating member which is relatively high and prevents movement of the actuating member by the first-mentioned spring means when the load member is present, whereas when no load member is present said spring force is sufficiently low to enable said first-mentioned spring means to move the actuating member to the "off" position.

(Complete specification 17 pages. Drawing 4 sheets).

CLASS : 35C.

153785.

Int. Class : C04b 15/00.

**"A METHOD FOR THE MANUFACTURE OF STEAM-CURFD LIGHT-WEIGHT AERATED CONCRETE WITH HYDROPHOBIC PROPERTIES".**

Applicant : INTERNATIONELLA SIPOREX AB, A SWEDISH COMPANY, OF STROMGATAN 11, S-212 25 MALMO, SWEDEN.

Inventors : PERCY SVENSSON, CART HENRY KRILL, OYSTEIN KALVENES & KNUT HELMERSSON.

Application for Patent No. 76|Del|80 filed on 4th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(12 claims)

A method for the manufacture of steam-cured light-weight aerated concrete having hydrophobic properties, comprising preparing an aqueous expandable and solidifiable slurry of one or more hydraulic binders of the kind such as herein described and one or more silica-containing materials of the kind such as herein described casting the slurry in a mould; expanding and solidifying, and optionally cutting the solidified slurry; and steam curing the resultant light weight aerated

concrete, wherein prior to casting said slurry it is admixed with silicone oil of the kind such as herein described in a quantity of 0.05--0.50% calculated on the dry weight of the starting mixture.

(Complete specification 19 pages).

CLASS : 87C.

153786.

Int. Class : A63b 59|08.

"IMPROVEMENTS IN OR RELATING TO CRICKET BATS".

Applicant : ISHAR BASS MAHAJAN & SONS, A PARTNERSHIP FIRM WHOSE PARTNERS ARE : ISHWAR DASS MAHAJAN, KULDIP RAJ MAHAJAN, SUKHDIP RAJ MAHAJAN AND BALJIT RAJ MAHAJAN, INDIA, ALL INDIAN NATIONALS OF BASTI NAU, JULLUNDUR-144002, PUNJAB.

Inventor : KULDIP RAJ MAHAJAN.

Application for Patent No. 82|Del|80 filed on 6th February, 1980.

Complete specification left on 22nd January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(5 claims)

A cricket bat having a striking side and a non-striking side, a handle provided therewith characterized in that at least a first apex line and a second apex line run along a part of the length of said non-striking side, and an inclined or sloping surface extends from each of the apex lines to its respective free edge of the bat, each of the said apex lines terminating at a distance above the lower end of the said bat, said first and second apex lines being spaced from each other.

(Provisional specification 5 pages).

(Complete specification 7 pages, Drawing 1 sheets).

CLASS : 87C.

153787

Int. Class : A63b 59|00.

"A PROCESS FOR THE MANUFACTURE OF A CRICKET BAT OR HOCKEY STICK AND A CRICKET BAT OR HOCKEY STICK MANUFACTURED THEREBY".

Applicant : ISHAR DASS MAHAJAN & SONS, A PARTNERSHIP FIRM WHOSE PARTNERS ARE ISHWAR DASS MAHAJAN, KULDIP RAJ MAHAJAN, SUKHDIP RAJ MAHAJAN AND BALJIT RAJ MAHAJAN, INDIA, ALL INDIAN NATIONALS OF BASTI NAU, JULLUNDUR-144002, PUNJAB.

Inventor : KULDIP RAJ MAHAJAN.

Application for Patent No. 84|Del|80 filed on 6th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(4 claims)

A process for the manufacture of a cricket bat or hockey stick characterised by the step of providing a reinforcement on the striking surface of a cricket bat or a hockey stick by first applying a resinous coating to the striking surface of said bat or stick, applying a woven strip or strips on said coated surface, applying a pressure on said strip or strips till such time that a curing of the resinous coating is effected and, finally, applying a coating of a resin thereon.

(Provisional specification 5 pages)

(Complete specification 6 pages, Drawing 1 sheet).

"CLASS : 146C.

153788.

Int. Class : E02d 27|34, G01v 1|00.

"EARTHQUAKE PROTECTOR".

Applicant : DELLE-ALSTHOM, OF 130, RUE LEON BLUM-69611 VILLEURBANE, FRANCE, A FRENCH BODY CORPORATE.

Inventors : EDMOND THURIES, JEAN-PAUL SADOULET AND DENIS DUFOURNET.

Application for Patent No. 88|Del|80 filed on 6th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(7 claims)

Earthquake protector for protecting apparatus such as a circuit-breaker mounted on at least one support member, characterised in that the protector comprises a base member for fast connection to a foundation and a plate assembly comprising first and second plates horizontally moveable relative to the base member, the first plate being connected to the support member by jacks and having a first sole plate on its lower surface engaging a second sole plate on the upper surface of the base member, said sole plates being arranged to slide freely relative to each other in horizontal motion, and the second plate being fast with the first plate and connected therewith by connection means passing through corresponding openings in the sole plates, the second plate engaging the base member via at least one spring for opposing relative horizontal motion therebetween and being made fast therewith by means of a pin of predetermined shear strength such that the pin will break when the base member is subjected to an acceleration exceeding a given threshold.

(Complete specification 8 pages, Drawing 1 sheet).

CLASS : 172C1

153789.

Int. Class : D01g 15|00.

"A DRIVE FOR CARDING APPARATUS".

Applicant : JOHN D. HOLLINGSWORTH ON WHEELS, INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF SOUTH CAROLINA, UNITED STATES OF AMERICA, OF LAURENS ROAD GREENVILLE, SOUTH CAROLINA, UNITED STATES OF AMERICA.

Inventor : JERRY BAILEY LOWE.

Application for Patent No. 89|Del|80 filed on 7th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(12 claims)

A drive for carding apparatus having a frame carrying a driven main cylinder and other carding components including a doffer, such drive comprising : a disc coaxial with the driven main cylinder and having opposed braking surfaces extending radially outwardly, concentrically of said main cylinder; at least one fixed caliper having spaced opposed brake pads for clampingly engaging said opposed braking surfaces; a drive transmission driving said other carding components from said main cylinder; and at least one switch on said carding apparatus effective to actuate said caliper for effecting clamping engagement between said pads and respective opposed braking surfaces for rapidly stopping said main cylinder and other carding components.

(Complete specification 18 pages, Drawings 5 sheets).

CLASS : 33A, D; 126D.

153790.

Int. Class : B22 45/00, G01d 21/00.

"APPARATUS FOR MEASURING MOULD/METAL GAP VARIATION WITH TIME DURING METAL CASTING PROCESS".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : JHARNA MAJUMDAR, BENOY CHANDRA RAYCHAUDHURI AND SUSHIL DASGUPTA.

Application for Patent No. 93|Del|80 filed on 8th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

(4 claims)

Apparatus for measuring mould/metal gap variation with time during a metal casting process consisting of probe in the form of an insulated electrode inserted into the mould, a wire suspended into the mould, the electrode being covered on its exposed surface by an insulation sheet to form a parallel plate capacitance between molten metal and the probe, capacitance meter connected to the probe and to the said wire in the mould and in parallel with a recorder means to measure capacitance variance in the mould/metal gap and record the same in term of voltage.

(Complete specification 10 pages. Drawings 4 sheets).

CLASS : 32F, (b).

153791.

Int. Cl. C07d 51/38.

"A PROCESS FOR PREPARING 2-ISOPROPYLAMINO PYRIMIDINE HYDROXY DERIVATIVES".

Applicant : SOCIETE D' ETUDES DE PRODUITS CHIMIQUES, A FRENCH COMPANY, OF 4, RUE THEODOLE RIBOT-75017 PARIS, FRANCE.

Inventor : ANDRE ESANU.

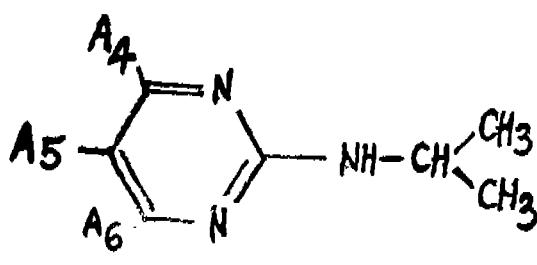
Application for Patent No. 103|Del|80 filed on 12th February, 1980.

Convention date 10th March, 1979|790894|(U.K.) and 30th April, 1979|7914987|(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(2 claims)

Process of preparing 2-isopropylamino pyrimidine hydroxy derivatives of the general formula I.



wherein each of A<sub>4</sub>, A<sub>5</sub> and A<sub>6</sub>, stands for :

—a hydrogen atom,

—a hydroxy group,

with the proviso that at least one of the A<sub>4</sub>, A<sub>5</sub> and A<sub>6</sub> is not a hydrogen atom said process consisting in reacting the corres-

ponding 2-thiomethyl pyrimidine on isopropylamine in a non polar solvent at 100-120°C, under pressure, according to the scheme shown in Fig. 2.

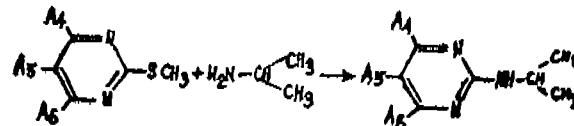


Fig. II

Compl. specn. 7 pages.

Drgs. 1 sheet.

CLASS : 69A.

153792.

Int. Cl. H01h 1/00.

"CIRCUIT BREAKER WITH RESISTANCE SWITCH IN DEVICE".

Applicant : DELLE-ALSTHOM, OF 130 RUE LEON BLUM 69611 VILLEURBANNE, FRANCE, A FRENCH BODY CORPORATE.

Inventors : DOAN PHAM VAN AND DANTE NICOLOSO.

Application for Patent No. 105|Del|80 filed on 12th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(12 claims)

A circuit-breaker of generally co-axial structure about an axis, the circuit-breaker comprising an interruption chamber housing, a pair of main contacts, and a pair of arcing contacts, and further comprising a switch-in device to switch-in a resistance during closing but not during opening of the circuit-breaker, wherein the housing is made of insulating material, wherein, the switch-in device comprises a pair of switch-in contacts which are disposed inside said housing and wherein said resistance is also disposed co-axially inside said housing and to one end of said housing, longitudinally relative to said three pairs of contacts.

Compl. specn. 15 pages.

Drgs. 4 sheets.

CASS : 98A, 107G.

153793.

Int. Cl. F02g 5/00.

"IMPROVEMENTS IN OR RELATING TO DEVICE FOR RECOVERING HEAT ENERGY IN A SUPERCHARGED INTERNAL-COMBUSTION ENGINE".

Applicant : SOCIETE DETUDES DE MACHINES THERMIQUES S.E.M.T., A FRENCH BODY CORPORATE, OF 2, QUAI DE SEINE, 93202 SAINT-DENIS, FRANCE.

Inventor : CLAUDE DUGLAS.

Application for Patent No. 106|DEL|80 filed on 12th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(3 claims)

A thermodynamic apparatus operating on a Rankine cycle for recovering heat energy from a supercharged liquid cooled internal combustion engine, the apparatus including a closed circuit for a working fluid and means for preheating, pressurizing, vaporizing, superheating, expanding, condensing and recirculating the working fluid in the closed circuit, characterized in that the preheating means comprises a first heat exchanger traversed by the heated cooling liquid from the engine and a second heat exchanger traversed by the air issuing from a supercharging compressor, the pressurizing means comprises a feed pump, the vaporizing and superheating means comprises a third heat exchanger traversed by the engine exhaust gas, the expanding means comprises a turbine, the condensing

means comprises a condenser, and the recirculating means comprises a condensate pump, connected together by said closed working fluid circuit, and in that the three heat exchangers are mounted in series, the condensate pump is located between the condenser and the first heat exchanger, and the feed pump is located between the second heat exchanger and the third heat exchanger.

Compl. specn. 8 pages.

Drgs. 1 sheet.

CLASS : 6B2, 40H.

153794.

Int. Cl. B01d 53/00.

"PROCESS FOR THE TREATMENT OF A HYDROGEN-CONTAINING RAW SYNTHESIS GAS MIXTURE IN ORDER TO REMOVE THEREFROM IMPURITIES IN THE FORM OF OXYGEN AND/OR AT LEAST ONE NITROGEN OXIDE".

Applicant : AECI LIMITED, OF 16TH FLOOR, OFFICE TOWER, CARLTON CENTRE, COMMISSIONER STREET, JOHANNESBURG, TRANSVAL, REPUBLIC OF SOUTH AFRICA, A SOUTH AFRICAN COMPANY.

Inventors : ANDRE DANIEL ENGELBRECHT, GERARDUS JAN VAN DEN HOUTEN.

Application for patent No. 108|Del|80 filed on 13th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(10 claims)

A process for the treatment of a hydrogen-containing raw synthesis gas mixture in order to remove therefrom impurities in the form of oxygen and/or at least one nitrogen oxide, wherein said gas mixture containing up to 45% by volume of hydrogen on a dry basis, together with carbon oxides, at least 50 ppm of hydrogen cyanide and said impurities is passed over a sulphur-resistant hydrogenation catalyst of the kind such as herein described at a temperature of from 120 to 250°C and at a pressure of from 0.5 to 250 bar whereby said impurities comprising oxygen and/or at least one nitrogen oxide are removed to yield a purified gas retaining a hydrogen cyanide content of at least 50 ppm.

Complete specification 21 pages.

Drgs. 4 sheets.

CLASS : 76E.

153795

Int. Cl. A47b 27/00.

"A STAND".

Applicant : DIAMOND ENGINEERING CORPORATION, A PARTNERSHIP FIRM OF B-2 INDUSTRIAL ESTATE, ROORKEE, INDIA OF WHICH THE PARTNERS ARE ROOP KRISHAN SHARMA AND ABDUL MALIK, BOTH INDIAN NATIONALS AND OF THE ABOVE ADDRESS.

Inventor : ROOP KRISHAN SHARMA.

Application for patent No. 112|DEL|80 filed on 19th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(18 claims)

A stand for supporting a drawing board and a drafting machine comprising a single vertical tubular member, a counter balance secured to one end of said tubular member, a locking mechanism secured to one end of said tubular member, a horizontal tubular member secured to the upper end of said vertical tubular member, an arm secured to each of the opposite ends of said horizontal tubular member for supporting a

drawing board, first means provided on said horizontal tubular member for providing an angular movement to said arms about the horizontal axis, a second means provided on said vertical tubular member for allowing a movement along the vertical axis and also for allowing angular movement of said vertical tubular member.

Compl. specn. 15 pages.

Drgs. 4 sheets.

CLASS : 208, 76E.

153796.

Int. Cl. A47b 27/00.

"A SUPPORT MEANS FOR A STAND FOR SUPPORTING A DRAWING BOARD AND DRAFTING MACHINE".

Applicant DIAMOND ENGINEERING CORPORATION, AN INDIAN PARTNERSHIP FIRM OF B-2 INDUSTRIAL ESTATE, ROORKEE, INDIA, OF WHICH THE PARTNERS ARE : ROOP KRISHAN SHARMA AND ABDUL MALIK, BOTH INDIAN NATIONALS AND OF THE ABOVE ADDRESS.

Inventor ROOP KRISHAN SHARMA.

Application for patent No. 113|DEL|80 filed on 19th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(6 claims)

A support means for a stand for supporting a drawing board and drafting machine comprising a base plate having an opening through which a vertical tubular member extends, an outer collar either fixed thereto or formed integrally, said collar extending upwardly from said base plate, an inner collar provided spaced from said outer collar with a circular groove formed therebetween, radial slots extending from the outer collar to said opening for accomodating the said tubular member, ball bearing accommodated within said slots and having adjustment means for displacing the said ball bearings towards or away from said tubular member, and means disposed within said groove for supporting said ball bearings.

Compl. specn. 8 pages.

Drgs. 2 sheets.

Ind. Cl. 32E.

153797.

Int. Cl. A61 K 23/00, C08f 27/00.

Title : A METHOD OF MANUFACTURING MECHANICALLY STABLE THREE DIMENSIONALLY CROSSLINKED POLYVINYL ALCOHOL.

Applicant : BHABHA ATOMIC RESEARCH CENTRE, OF TROMBAY, BOMBAY-400 085, MAHARASHTRA, INDIA, A SCIENTIFIC INSTITUTION OF THE DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA.

Inventor : GOPINATHAN CHAKRAPANY.

Application No. 325|BOM|1980 filed on Oct 29, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

(3 claims)

A method of manufacturing mechanically stable three dimensionally crosslinked polyvinyl alcohol in the form of a hydrophilic gel, said method comprising reacting an aqueous solution of polyvinyl alcohol of molecular weight 10000 to 20000 and potassium persulphate at a temperature between 80°C to 90°C and, if required with a detergent such as herein described to form a hydrophilic gel and if necessary washing the said gel with a solvent such as herein described and drying the said gel in an air oven between 55°C to 65°C.

Compl. Specn. 5 pages.

Drg. Nil.

Ind. Cl. : 60C.

153798

(3 claims)

Int. Cl. A42b 3/00.

Title : FOLDING SAFETY|CRASH HELMET.

Applicant & Inventor : NARESH KUMAR GOYLE  
 INDIAN CITIZEN OF 43-D/214, MANISH NAGAR, VER-  
 SOVA ROAD, ANDHERI (WEST), BOMBAY-400 058,  
 MAHARASHTRA, INDIA.

Application No. 60|BOM|1981 filed on February 28, 1981.

Cognate application No. 354|BOM|1981 filed on 29-12-81.

Complete after provisional left on May 12, 1982.

Appropriate office for opposition proceedings (Rule 4,  
 Patents Rules, 1972) Patent Office, Bombay Branch.

(13 claims)

A folding safety|crash helmet comprising .

(i) a collapsible substantially ellipsoidal shell structure composed of a primary central arcuate strip, pivot means on said central arcuate strip, pivot means on said central strip for anchoring one or more curved secondary strips on either side of the central strip, each secondary strip being so dimensioned to form a compact telescoped unit in which all said secondary strips are located beneath said central arcuate strip, each secondary strip being provided with means for interlocking said strip to an adjacent secondary strip or to the central strip;

(ii) impact absorption means connected to the inner periphery of the ellipsoidal structure, said impact absorption means defining a substantially oval shape conforming to the size of a human head and terminating at its apex in a disc-like structure; and

(iii) helmet retention means anchored to the inner periphery of said ellipsoidal shell structure on two outermost of said curved secondary strips, said means being connected between said two strips at points diametrically opposite to each other.

Provisional specification 2 pages. Drawing 1 sheet.  
 Cognate Provisional specn. 5 pages. Drawing 6 sheets.  
 Complete specification 13 pages. Drawing 6 sheets.

Ind. Cl. 32 C+32 E+55E<sub>2</sub>.

153799.

Int. Cl. A61K—23/00+A61 L—15/00+C08,—19/00.

Title : PROCESS FOR THE PREPARATION OF DEXTRANOMER-IODINE POLYXYETHYLENE NONYL PHENOL COMPLEX.

Applicant : UNIDISTRIBUTORS PRIVATE LIMITED OF 22, BHULABHAI DESAI ROAD, BOMBAY-400 026, MAHARASHTRA, INDIA. A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913.

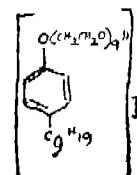
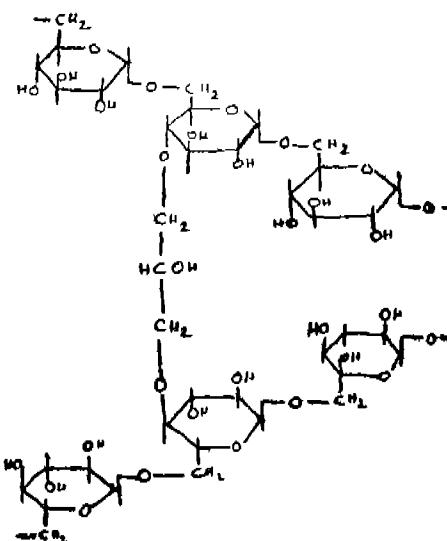
Inventor : AMRUT VITHALDAS MODY OF BHULABHAI DESAI ROAD, BOMBAY-400 026, MAHARASHTRA, INDIA, INDIAN NATIONAL.

Application No. 145|Bom|81 filed May 21, 1981.

Complete after provisional left on March 22, 1982.

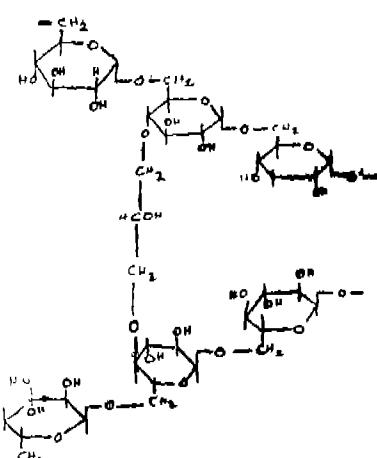
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

A process for the preparation of dextranomer-iodine polyoxyethylene nonyl phenol complex of the Formula 1 of the accompanying drawings.



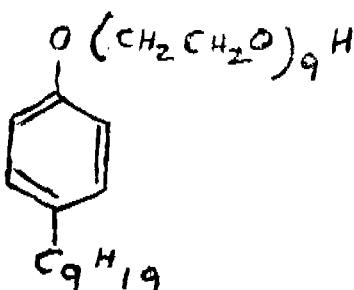
Formula 1

wherinc 'X' as herein described which comprises reacting a dextranomer (as herein described) of the Formula 2 of the accompanying drawings



Formula 2

wherein 'x' as herein described with iodine in oxyethylene nonyl phenol of the Formula 3 of the accompanying drawings.



Formula 3

Complete Specification 6 pages.

Drawing 4 sheets.

Provisional specification 5 pages.

Drgs. 2 sheets.

153800.

Ind. Cl. 69.

Int. Cl. H01h 1/00.

Title : SAFETY RELAY SWITCH FOR WATER BOILERS, COOKERS AND THE LIKE.

Applicant & Inventor : KUMAR BALRAM BHATIA, AN INDIAN NATIONAL, C/o. BLUE STEEL ENGINEERS PRIVATE LIMITED, BLUE STEEL HOUSE, D-12, M.I. D.C. MARL-ANDHERI (EAST) BOMBAY-400 093, MAHARASHTRA, INDIA.

Application No. 187/BOM/1981 filed on Jun 29, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rule 1972) Patent office, Bombay Branch.

3 claims

A safety relay switch for water boilers, cookers and the like to be cut off at required temperature comprising a curved bimetal disc mounted with its curvature in concave position relative to one or more pair of contacts for electrical connection, a plunger axially mounted on the disc to be pushed by the said disc and the plunger being provided with a contact bar for making electrical contact in between the said pair of contacts, and above the contact bar a push bar is freely mounted on the same axis of the plunger to be pushed by the plunger, the head of the push bar projecting out of the casing which houses the bimetal disc, plunger, contact bar and electrical contacts, the switch being further provided with an adjustment means for operation of the switch at different temperatures.

Complete specification 7 pages

Drawing 1 sheet.

Ind. Cl. : 32E + 55E<sub>1</sub> + 55E<sub>2</sub>.  
Int. Cl. A 61K 23/00, C08f 26/00.

153801.

Title : A METHOD OF MANUFACTUREING MECHANICALLY STABLE THREE DIMENSIONALLY CROSSLINKED POLYVINYL ALCOHOL.

Applicant : BHABHA AUTOMATIC RESEARCH CENTRE, OF TROMBAY, BOMBAY-400 085, MAHARASHTRA, INDIA, A SCIENTIFIC INSTITUTION OF THE DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA.

Inventor : DR. GOPINAHAN CHAKRAPANY.

Application No. 392/BOM/1983 Filed on Dec. 13, 1983.  
Divisional of application No. 325/BOM/1980 dated 29-10-1980.

Appropriate office for opposition proceeding (Rule 4, Patent Rule 1972) Patent office Bombay Branch.

4 claims

A method of manufacturing mechanically stable three dimensionally crosslinked polyvinyl alcohol in the form of a hydrophilic gel, said method comprising reacting an aqueous solution of polyvinyl alcohol of molecular weight 10000 to 20000 and potassium persulphate at a temperature between 80°C to 90°C with an absorbent such as herein described to form

a hydrophilic gel, washing the said gel with a solvent such as herein described, liquidising the said gel with water, if necessary, and drying the said gel in an air oven between 55°C to 65°C.

Complete specification 6 pages Drawings Nil.

CLASS : 70C4.

153802.

Int. Class : B01k 3/12, C23b 5/00.

"A PROCESS OF ELECTRO-PLATING CHROMIUM, FROM AN AQUEOUS SOLUTION OF CHROMIUM (III)—THIOCYANATE COMPLEXES".

Applicant : INTERNATIONAL BUSINESS MACHINES CORPORATION of Armonk, New York 10504, United States of America, a corporation organised and existing under the laws of the State of New York, United States of America.

Inventors : DONALD JOHN BARCLAY AND JAMES MICHAEL LINFORD VIGAR.

Application for patent no. 699/Del/79 filed on 3rd October, 1979.

Convention date 11th November, 1978/44177 (U.K.) 29th June, 1979/7922791 (U.K.) 18th September, 1979/7932300 (U.K.).

Appropriate Office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

8 claims

A process of electro-plating an article with chromium from an aqueous solution of chromium (III)—thiocyanate complexes comprising the step of passing an electric current between an anode and a cathode in the solution to cause deposition of chromium on the cathode, in which the solution further includes a pH buffer material and the concentration of chromium is sufficiently less than 0.03 Molar to produce a deposit of a colour substantially as light as or lighter than an evaporated chromium deposit.

(Complete Specification 22 pages).

CLASS : 31C.

153803.

Int. Class : H01c 17/00.

"IMPROVED PROCESS FOR THE PRODUCTION OF NICKEL-CHROMIUM AND ALUMINIUM FILM RESISTORS ON GLASS/ALUMINA SUBSTRATES".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventor : AWATAR SINGH.

Application for patent no. 143/Del/80 filed on 29th February, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

2 claims

Improved process for the fabrication of nickel-chromium and aluminium film resistors on glass/alumina substrate, comprising the steps of (i) degreasing the substrate, vacuum depositing an aluminium film thereon, applying positive photoresist, on the aluminium coated surface of the substrate (ii) exposing the coated substrate through negative composite mask for desired conductor and resistor patterns and developing thereof, (iii) etching the exposed aluminium film on the substrate with orthophosphoric acid, stripping the photoresist, (iv) characterised in that the thus treated substrate surface is coated with nickel-chromium and aluminium films, further again applying positive photoresist thereto, (v) exposing the thus coated substrate for desired conductor pattern through a positive mask and developing, and (vi) further etching the exposed aluminium, nickel-chromium surfaces of the substrate in orthophosphoric acid and stripping the photoresist.

(Complete Specification 7 pages Drawing one sheet).

CLASS : 72B. 153804.  
Int. Class : C06b 1/00, 11/00, 15/00.

"A WATER-IN-OIL MICROEMULSION EXPLOSIVE COMPOSITION AND THE PROCESS FOR PRODUCING THE SAME".

Applicant : C-I-L INC., A CORPORATION OF CANADA, OF 630 DORCHESTER BLVD. WEST, MONTREAL, QUEBEC, CANADA.

Inventors : REJEAN BINET, JOSEPH ALAIN ROMEO CLOUTIER, HAROLD WILLIAM HOLDEN, MELVIN ADAM MCNICOL, ANTHONY CHARLES FOSTER EDMONDS.

Application for patent no. 153|Del|80 filed on 4th March, 1980.

Convention date 2nd April, 1979|324, 627|(Canada), 14th December, 1979|342, 098|(Canada).

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

50 claims

A water-in-oil microemulsion explosive composition comprising an aqueous solution of one or more oxygen-supplying salts of the kind such as herein described as discontinuous phase, an insoluble liquid or liquefiable hydrocarbon fuel of the kind such as herein described as a continuous phase, at least one sensitizing component distributed substantially homogeneously throughout the composition as a further discontinuous phase and from 0.4 to 4.0% by weight of an emulsifying agent, characterized in that the emulsifying agent comprises a combination of at least one conventional water-in-oil emulsifier, and at least one amphiphatic graft, block or branch polymeric emulsifier of the kind such as herein described.

(Complete specification 54 pages Drawing 1 sheet).

CLASS : 116G. 153805.

Int. Class : B66f 7/00.

"WALKING MACHINES FOR MOVING LOADS".

Applicant : EDWARD L. BATEMAN LIMITED, OF BARTLETT ROAD, BOKSBURG NORTH, TRANSVAAL, SOUTH AFRICA, A COMPANY REGISTERED ACCORDING TO THE LAWS OF THE REPUBLIC OF SOUTH AFRICA.

Inventor : JOSEF KIVVOVICH RABINOVITCH.

Application for patent no. 157|Del|80 filed on 5th March, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

7 claims

A walking machine suitable for moving heavy loads comprising :

first and second pillars adapted to rest on the ground, a platform spanning the pillars and adapted to support a load eccentrically to the middle plane between the pillars and over the first pillar, a powered extensible and retractable leg pivotally mounted to the platform at the middle plane to move along a first path towards and away from each pillar,

a massive foot pivoted to the extensible leg, and first power means to cause the leg to move along the first path.

(Complete specification 6 pages Drawing 3 sheets).

CLASS : 131B3, 71B. 153806.

Int. Class : E02f 3/62.

"APPARATUS FOR CONVEYING/STACKING EXCAVATED MATERIAL ACROSS A PIT IN A SURFACE OR STRIP MINING OPERATION."

Applicant : DRESSER INDUSTRIES, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DEI AWARE, UNITED STATES OF AMERICA, HAVING ITS PRINCIPAL PLACE OF BUSINESS AT THE DRESSER BUILDING, ELM AND AKARD STREETS, POST OFFICE BOX 718, DALLAS, TEXAS 75221, UNITED STATES OF AMERICA.

Inventors : THOMAS IRVIN FILES, DONALD HERBERT BEUTNER.

Application for patent no. 166|Del|80 filed on 7th March, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(7 Claims)

Apparatus for conveying/stacking excavated material across a pit in a surface or strip mining operation, comprising : a base to be located on one bank above a mining pit; said base being mounted on means for propelling the base along the surface of said one bank; an upper frame rotatably mounted on the base; a cantilevered boom extending from the frame and long enough to reach at least across the width of said mine pit; conveying means extending along said boom and operational to convey excavated material from said one bank of the pit to the opposite side; and drive means for imparting drive to : (1) said means for propelling the base; (2) rotate said upper frame; and (3) operate said conveying means.

(Complete specification 10 pages. Drawing 2 sheets)

153807.

CLASS : 65A1. Int. Class : H02h 7/10, H02m 1/18.

"CONVERTOR FOR HIGH VOLTAGE DIRECT CURRENT POWER TRANSMISSION."

Applicant : ASEA AKTIEBOLAG, A SWEDISH CORPORATION, OF VASTERAS, SWEDEN.

Inventor : KARL ERIK OLSSON.

Application for patent no. 173|Del|80 filed on 10th March, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(18 Claims)

A static electrical convertor for high voltage direct current power transmission comprising at least one valve assembly having a single valve or a plurality of electrically series connected valves, and suspension means at the upper end of said valve assembly, for suspension of the valve assembly from a supporting structure, in which said suspension means comprises resilient means permitting relative movements in a vertical direction between the valve assembly and said supporting structure.

(Complete specification 17 pages. Drawing 6 sheets)

153808.

CLASS : 39L, I; 40B. Int. Class : B01j 11/00.

"A METHOD FOR PRODUCING A SOLUTION CONTAINING NITRATES OF IRON AND CHROMIUM FOR THE PRODUCTION OF A CATALYST."

Applicant : IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1 3JF, ENGLAND, A BRITISH COMPANY.

Inventor : ROBERT JAMES JENNINGS.

Application for patent no. 175|Del|80 filed on 11th March, 1980.

Convention date 27th March, 1979|7910578 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(7 Claims).

A method for producing a solution containing nitrates of iron and chromium for the production of a catalyst which comprises reacting metallic iron or an iron alloy containing chromium as the major constituent other than iron but not more than 10% w/w of nickel or cobalt with nitric acid in the presence of one or more hexavalent chromium compounds, such as herein described and, if desired, converting the nitrates to an intimate mixture of the oxides by a method such as herein described.

(Complete Specification 10 pages).

CLASS : 157D3.

153809.

Int. Class : E01b 31|00, 27|00, 37|00, B61f 5|00, B61d 3|00.

**"METHOD FOR MANUFACTURING THE ROLLING CHASSIS OF A WORK-MACHINE FOR TAMPING, LEVELLING AND LATERALLY ALIGNING RAILWAY TRACKS AND WORK MACHINES SO MANUFACTURED."**

Applicant : SIG SOCIETE INDUSTRIELLE SUISSE, A SWISS BODY CORPORATE OF INDUSTRIEPLATZ, 8212 NEUHAUSEN AM RHEINFALL, SWITZERLAND.

Inventors : SANDRO PASQUINI.

Application for patent no. 167|DEL|80 filed on 7th March, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(8 Claims).

A method for manufacturing the rolling chassis of a work-machine for tamping, levelling and laterally aligning railway tracks, which machine comprises two spaced rolling supports to run on the railway track and tools for tamping, levelling and laterally aligning the railway track, which tools are arranged between the two rolling supports by means of a bearing frame, characterized by the steps of at least partly cutting a standard series platform wagon between its two rolling supports to form an outlet there-between, bridging said outlets by said tamping, levelling and lateral alignment tools bearings frame and mounting said tamping, levelling and lateral alignment tools on said bearing frame through said outlet so that they have free passage between said bearing frame and the railway track.

(Complete specification 13 pages.

Drawing 1 sheet)

CLASS : 145D, E3.

153810.

Int. Class : D21d 5|00.

**"APPARATUS FOR CLEANING AND DEAERATING AN AQUEOUS SUSPENSION OF PAPERMAKING STOCK."**

Applicant : CLARK & VICARIO CORPORATION, OF 10600 ENDFAVOUR WAY, PINELLAS PARK, FLORIDA 33565, UNITED STATES OF AMERICA, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF FLORIDA, UNITED STATES OF AMERICA.

Inventor : ROBERT GEORGE KAISER.

Application for patent no. 179|DEL|80 filed on 12th March, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(38 Claims)

Apparatus for cleaning and deaerating an aqueous suspension of papermaking stock comprising :

a plurality of centrifugal cleaners for separating suspension into dirt-rich and dirt-poor fractions, each cleaner having an inlet opening and also having separate dirt-rich and dirt-poor outlets;

an enclosed first receiver for receiving and collecting the dirt-poor suspension discharging from said cleaners;

a vertically elongated first pedestal structure, said receiver being disposed at the top of said pedestal structure and extending radially out-wardly therefrom, said pedestal structure supporting said receiver, said cleaners being disposed beneath said receiver, each such cleaner extending substantially vertically, the dirt-poor outlets of the cleaners being adjacent the top of the cleaners, the cleaners being disposed side by side and parallel with one another in an arcuate array extending about said pedestal structure;

outlet pipes connecting the dirt-poor outlets of said cleaners with said receiver, said outlet pipes terminating in open ends within said receiver above the level of any suspension collecting therein;

cleaner feed branch conduit means extending radially with respect to said pedestal structure beneath said receiver to the vicinity of said cleaners, the inlet openings of said cleaners being in communication with said branch conduit means;

a source of vacuum;

means for connecting said source of vacuum with the headspace in said receiver, dirt-poor suspension discharging into said head space being subjected to the influence of vacuum to effect deaeration of same; and

an accepts conduit connected with said receiver for conveying dirt-poor suspension to a point of use, an infeed conduit connected to said cleaner feed branch conduit means for supplying suspension thereto, and a rejects conduit for conveying dirt-rich suspension to a subsequent cleaning operation, the dirt-rich outlets of said cleaners communicating with said rejects conduit, said pedestal structure including at least one of said conduits.

(Complete specification 32 pages.

Drawings 11 pages).

CLASS : 70C..

153811.

Int. Class : B01k 3|12, C23b 5|00.

**"PROCESS OF ELECTROPLATING AN ARTICLE BY DEPOSITION OF THICK CHROMIUM FILMS FROM AQUEOUS SOLUTIONS OF CHROMIUM (III)—THIOCYANATE COMPLEXES."**

Applicant : INTERNATIONAL BUSINESS MACHINES CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, OF ARMONK, NEW YORK 10504, UNITED STATES OF AMERICA.

Inventors : DONALD JOHN BARCLAY AND JAMES MICHAEL LINFORD VIGAR.

Application for patent no. 745|Del|82 filed 11th October, 1982.

Convention date 29th June, 1979|7922791 (G.B.).

Divided out of application for patent no. 699|Del|79 dated 3rd October, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(10 Claims).

A process of electroplating an article with a layer of chromium exceeding five microns in thickness comprising the step of electroplating the article with an initial layer of chromium from an equilibrated aqueous solutions of chromium (III)—thiocyanate complexes of chromium concentration less than

0.03 M, the initial layer being thin in comparison with the total thickness to be plated, and plating the major proportion of the remaining thickness in one or more steps from an equilibrated aqueous solution of chromium (III)—thiocyanate complexes of chromium concentration greater than 0.03 M.

(Complete Specification 12 pages).

Ind. Class : 119 C.

153812.

Int. Cl. D03C 5|00+3|00.

**AN APPARATUS FOR PROPELLING WEFT THREAD IN A TRAVELLING WAVE SHEDDING LOOM.**

Applicant : AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION AN INDIAN REGISTERED BODY, REGISTERED UNDER SOCIETY'S REGISTRATION ACT, XXI, OF 1860, P.O. POLYTECHNIC, AHMEDABAD-380 015, GUJARAT, INDIA.

Inventor : 1. PRADYUMANSINH BALVIRSINH JHALA, 2. MAHENDRANKUMAR GHELABHAI SOLANKI, 3. DINESHCHANDRA KASHIBHAI PATEL.

Application No. 281|BOM|1981 Filed on Sept, 30, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

**21 Claims.**

An apparatus for propelling weft thread carriers in a travelling wave shedding loom, comprising a closed endless stationary guideway having a pair of straight portions interconnected by a pair of curved portions and an endless movable chain conveyor accommodated within the said guideway, said conveyor being provided with a first member adapted to propel the weft carriers along the said guideway outside the loom shed area lying across the guideway, and a second member adapted to cooperate with the weft carriers to propel while being moved through the shed area with automatic disengagement of the said first member from the weft carrier, and the said guideway being provided along its curved portions with means adapted to operatively engage with the weft carriers moving along the said curved portions for retaining and guiding the weft carriers without any displacement of the later in the vertical plane and any eventual oscillation thereof in the horizontal plane.

(Complete specification 22 pages. Drawing 4 sheets).

CLASS : 55F.

153813

Int. Class : A 61 K-9|04.

**PROCESS FOR THE COATING OF HARD GELATION CAPSULE SHELLS TO INCREASE THEIR RESISTANCE TO THE ACTION OF THE GASTRIC MUCOSA.**

Applicant : MANEKLAL SCIENTIFIC RESEARCH FOUNDATION AN INDIAN COMPANY OF A1, BRIGHTON NO. 1 RUNGTA LANE, OFF NAPEAN SEA ROAD, BOMBAY-400 006, MAHARASHTRA, INDIA.

Inventor : COL. GIRI KISHOR LALL (RETD.) OF FLAT NO. 402, 'SHIVALA' SHOBANI ROAD, COLABA, BOMBAY-400 005, MAHARASHTRA, INDIA, AN INDIAN NATIONAL.

Application No. 341|BOM|1980 Filed Nov. 13, 1980.

Complete after Provisional left on Feb. 15, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

**(5 Claims).**

A process for the coating of hard gelatine capsule shells to increase their resistance to the action of the gastric mucosa which comprises applying to said shells a coating composition comprising a mixture of an aliphatic aldehyde and methyl polyacrylamide, removing excess coating composition from the

3-197GT|81

shell surfaces by washing the capsule shells with a solvent system of the kind such as herein described and, if desired, drying said coating capsule shells.

Complete specification 6 pages, Drawing NI..

Provisional specification 4 pages; Drawing NI..

Ind. Class : 27 I.

153814.

Int. Class : E05d—13|00.

**A SLIDING ASSEMBLY FOR SUPPORTING A CHASSIS USED FOR MOUNTING DEVICES, COMPONENTS OR THE LIKE.**

Applicant : LARSEN & TOUBRO LIMITED, OF L & T HOUSE, NAROTTAM MORARJI MARG, BALLARD ESTATE, BOMBAY-400 001, MAHARASHTRA, INDIA, AN INDIAN COMPANY.

Inventor : RUSSY MASTER, MOHAN VISHWESHVERIA

Application No. 170|BOM|1981 filed on Jun 16, 1981.

Appropriate office for opposition proceedings, (Rule 4, Patents Rule 1972) Patent office, Bombay Branch.

**(3 Claims)**

A sliding assembly for supporting a chassis used for mounting devices, components or the like, said assembly comprising a pair of members one member being adapted to slide in the other member on ball bearings spaced apart by compression springs and to support and rigidly hold the chassis and the other member being adapted to be detachably connectable to a support and stopper means provided in said one member and/or said other member in order to restrict the movement of said one member and ball bearings.

(Complete specification—7 pages. Drawing 4 sheets).

CLASS : 32A1.

153815.

Int. Class : C09b 31|30.

**PROCESS FOR THE PRODUCTION OF WATER SOLUBLE DYESTUFFS.**

Applicant : BAYER AKTIENGESELLSCHAFT, A BODY CORPORATE ORGANISED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY, OF 5090 LEVERKUSEN, BAYERWERK, FEDERAL REPUBLIC OF GERMANY.

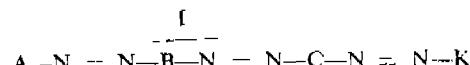
Inventors : JOCHEN WESTPHAL, HERMANN HENK.

Application for patent No. 171|DEL|80 filed on 10th March, 1980.

Appropriate office for opposition proceedings, (Rule 4, Patents Rule 1972) Patent Office Branch, New Delhi-110005.

**(3 Claims)**

Process for the production of water soluble dyestuffs of the Formula :



wherein

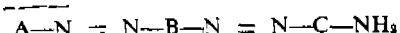
A denotes sulphophenyl or sulphonaphthyl, which are optionally further substituted.

B denotes sulphonaphthylene, which is optionally further substituted.

C denotes 1, 4-phenylene or 2, 4-naphthalene, which are optionally further substituted, and

K denotes the radical of an optionally functionally modified coupling component of the hydroxy-benzene series, amino-pyrazole series, pyridone series or acetoacetic acid arylide series, or of barbituric acid or citrazinic acid, characterised in that diazotised amines of the formula VIII

VIII



X



are coupled in known manner with coupling components of Formula X

(Complete specification 14 pages. Drawings 2 sheets).

CLASS : 32F<sub>21</sub> 55D<sub>2</sub>.

153816.

Int. Class : C07d 31|40, A01n 9.20.

**A PROCESS FOR PREPARING PYRIDYLIMINOMETHYLBENZENE DERIVATIVES.**

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDTLAAN 30, THE HAGUE, THE NETHERLANDS A COMPANY ORGANISED UNDER THE LAWS OF THE NETHERLANDS, A RESEARCH COMPANY.

Inventors : PIETER TEN HAKEN AND SHIRLEY BEATRICE WEBB.

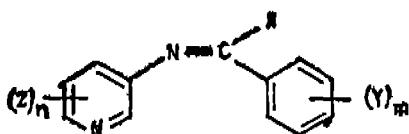
Application for patent no. 176|Del|80 filed on 11th March, 1980

Convention dated 13th March, 1979|7908822|79 (U.K.).

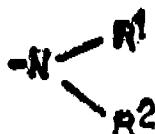
Appropriate office for opposition proceedings. (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005

(2 Claims)

A process for the preparation of a pyridylimino-methylbenzene derivative or an acid-addition salt thereof, said derivative being a compound of general formula I

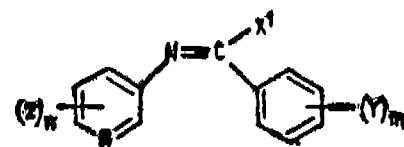


wherein X is cyano, ethynyl, optionally substituted alkoxy, cycloalkoxy, alkenyloxy, alkynyoxy, aryloxy, haloaryloxy, alkoxyaryloxy, alkylxyloxy, haloaralkyloxy, alkoxyaralkyloxy, optionally substituted alkylthio, cycloalkylthio, alkenylthio, alkynylthio, arylthio, haloarylthio, alkoxyarylthio, aralkylthio, or a group of formula shown in Fig. 1.



where R<sup>1</sup> and R<sup>2</sup> are independently selected from hydrogen and optionally substituted alkyl, or R<sup>1</sup> and R<sup>2</sup> together with the interjacent nitrogen atom form a heterocyclic ring of from 5 to 7 ring atoms, one of which ring atoms may be a further heteroatom selected from nitrogen, oxygen and sulphur; m is 0, 1 or 2; Y is a hydrogen atom or an alkyl, haloalkyl, alkoxy, haloalkoxy, halo, nitro, aryloxy, haloaryloxy, cyano or alkoxy carbonyl moiety; n is 0, 1 or 2; and Z is an alkyl,

alkoxy, or halo moiety which comprises reaction a compound of general formula II



where m, n, Y and Z are all as defined above and X<sup>1</sup> is halogen, with a compound of formula Q—X where X is as defined above and Q is hydrogen or an alkali metal atom, optionally in the presence of an acid acceptor.

(Complete Specification 20 pages. Drawing 2 sheets).

CLASS : 129Q.

153817.

Int. class : B23k 11|10.

**“ELECTRONIC APPARATUS FOR ASSESSING THE QUALITY OF RESISTANCE SPOT OR PROJECTION WELDING”.**

Applicant : BHARAT HEAVY ELECTRICALS LTD., 18-20, KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA, AN INDIAN COMPANY.

Inventors : KALLURI GOPALAKRISHNA MURTI, SIVA RAMAKRISHNAN, MUTHUKRISHNAN, VIJAY SHANKAR RAO AGWAN.

Application for patent No. 177|DEL|80 filed on 12th March, 1980.

Complete specification left on 16th March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(8 Claims)

An electronic apparatus of the type described comprising an air cored toroid coil as transducer for producing a voltage signal proportional to the welding current or voltage, an input signal conditioner for receiving the signals from the transducer and modifying the signal as a DC output signal, an analog comparator for comparing the said DC output signal with two highly stable voltage values corresponding to the acceptable upper and lower limits of the welding current, means connected to the comparator for determining whether output voltage signal from the comparator is less than, equal to or greater than set limits of reference voltage corresponding high and low limits of permissible value of welding current and further means connected to the said means to give visual and/or audible indication whether the welding current is within or outside the permissible limits.

(Provisional specification 6 pages

Drawing 1 sheet)

(Complete specification 9 pages)

CLASS : 32E.

153818

Int. Class : C08g 15|00.

**“A PROCESS FOR POLYMERIZATION OF 2-PYRROLIDONE TO FORM PELLETS”.**

Applicant :—ARTHUR CONARD BARNES AND CARI EDMUND BARNES, both citizens of the United States of America, of 482 Trinity Pass Road, New Canaan, Connecticut 06840, United States of America.

Inventors :—ARTHUR CONARD BARNES AND CARI EDMUND BARNES.

Application for patent No. 180|Del|80 filed on 12th March, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 9 Claims

A continuous process for polymerizing 2-pyrrolidone via the bulk polymerization method to form pellets comprising the steps of :

- (1) preparing an anhydrous catalyst solution of an alkali metal pyrrolidone in 2-pyrrolidone, and
- (2) preparing an anhydrous accelerator solution of a quaternary ammonium salt the anion of which is selected from the group consisting of sulfate and bisulfate in 2-pyrrolidone, and
- (3) mixing these two solutions and adding a polymerization initiator selected from the group consisting of  $C_2$  and  $SO_3$ , and
- (4) pumping them under pressure at a metered rate to a manifold to which are connected polymerization tubes maintained at a slightly elevated temperature, and
- (5) applying sufficient pressure by pumping to force the polymerizing mixture through the tubes, and
- (6) providing sufficient residence time in the tubes so that solid rods of polymer emerge from the open ends of the tubes, and
- (7) cutting the rods of polymerized 2-pyrrolidone thus formed into pellets.

(Complete Specification 13 pages. Drawing one sheet)

CLASS : 32E

153819

Int. Class : C08g 15/00

**"A METHOD FOR THE POLYMERIZATION OF 2-PYRROLIDONE".**

Applicant :—ARTHUR CONARD BARNES AND CARL EDMUND BARNES, both citizens of the United States of America, of 482 Trinity Pass Road, New Canaan, Connecticut 06840, United States of America.

Inventors :—ARTHUR CONARD BARNES AND CARL EDMUND BARNES.

Application for patent no. 181|Del|80 filed on 12th March, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 4 Claims

A method for the polymerization of 2-pyrrolidone utilizing an alkali metal pyrrolidone, a quaternary ammonium accelerator and a polymerization activator to form a melt extrudable polymer of 2-pyrrolidone, the improvement comprising in recovering and re-using both the unpolymerized 2-pyrrolidone and the quaternary ammonium accelerator comprising the steps of :

- (1) extracting the polymer formed with a solvent of the kind such as herein described for both the 2-pyrrolidone and the quaternary ammonium accelerator,
- (2) neutralizing the extract in any known manner,
- (3) removing the solvent in any known manner,
- (4) drying the mixture by adding 2-pyrrolidone and distilling over under vacuum sufficient 2-pyrrolidone to remove substantially all of the water,
- (5) adding an anhydrous alkali metal pyrrolidone plus a quantity of dry 2-pyrrolidone sufficient to make the total amount added and remaining in the mixture equal to that removed from the original mixture in the form of polymer, and
- (6) contacting the resulting mixture with a polymerization activator to again effect polymerization.

Complete specification 10 pages.

CLASS : 32E.

153820.

Int. Class : C08g 15/00

**"A PROCESS FOR PREPARING PARTICULATE POLYPYRROLIDONE".**

Applicant :—ARTHUR CONARD BARNES AND CARL EDMUND BARNES, both citizens of the United States of America, of 482 Trinity Pass Road, New Canaan, Connecticut 06840, United States of America.

Inventors :—ARTHUR CONARD BARNES AND CARL EDMUND BARNES.

Application for patent no. 182|Del|80 filed on 12th March, 1980.

Complete specification left on 22nd September, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 10 Claims

A process for forming particulate polypyrrolidone comprising heating at a temperature of from 20 to 70°C. an anhydrous mixture comprising 2-pyrrolidone, an alkaline polymerization catalyst, a polymerization accelerator selected from the group consisting of quaternary ammonium sulfates and bisulfates and a polymerization initiator selected from the group consisting of  $CO_2$ ,  $SO_3$  and  $MoO_3$  thereby causing the formation of a friable gel phase of short duration as the polymerization proceeds and agitating the mass while in this phase.

(Provisional specification 10 pages)

(Complete specification 13 pages)

CLASS : 32E

152821

Int. Class : C08g 15/00

**"A PROCESS FOR PREPARING PARTICULATE POLYPYRROLIDONE".**

Applicant :—ARTHUR CONARD BARNES AND CARL EDMUND BARNES, both citizens of the United States of America, of 482 Trinity Pass Road, New Canaan, Connecticut 06840, United States of America.

Inventors :—ARTHUR CONARD BARNES AND CARL EDMUND BARNES.

Application for patent no. 184|DEL|80 filed on 12th March, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 8 Claims

A process for forming particulate polypyrrolidone comprising agitating at a temperature of from 20 to 70°C. an anhydrous mixture comprising 2-pyrrolidone, an alkaline polymerization catalyst of the kind such as herein described, a polymerization accelerator selected from the group consisting of quaternary ammonium sulfates and bisulfates and a polymerization activator selected from the group consisting of  $CO_2$ ,  $SO_3$  and  $MoO_3$  for a period of from 30 minutes to 30 hours.

(Complete specification 12 pages)

CLASS : 55E<sub>2</sub>, E<sub>4</sub>

153822

Int. Class : A61k 21/00

**"A PROCESS FOR PREPARING A STABLE, INJECTABLE SOLUTION OF AN OXYTETRACYCLINE CHELATE".**

Applicant :—PFIZER INC., a corporation organised under the laws of the State of Delaware, United States of America, of 235 East 42nd Street, New York, State of New York, United States of America.

Inventor :—WILLIAM WELLESLEY ARMSTRONG.

Application for patent no. 185|Del|80 filed on 13th March, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A process for preparing a stable, injectable solution of an oxytetracycline chelate which comprises dissolving oxytetracycline in a concentration of from 20—30% w/v, from 0.8 to 0.95 molar proportions of magnesium oxide based on said oxytetracycline, from 0.15 to 0.3 molar proportions based on said oxytetracycline of a pharmaceutically acceptable calcium compound such as herein described therein and optionally adding 1—15% w/v soluble polyvinylpyrrolidone, glycerol formal or propylene glycol to said solution, in 40—60% aqueous 2-pyrrolidone and adjusting the pH to a value of 7.5 to 9.5, if necessary to achieve solution.

(Complete Specification 14 pages).

CLASS : 14A<sub>2</sub> 153823

Int. Class : H01m 21|00, 35|00

"AN IMPROVED PROCESS FOR THE FABRICATION OF POROUS BICARBON-AIR ELECTRODE FOR METAL-AIR CELLS AND POROUS BICARBON AIR ELECTRODES THUS OBTAINED".

Applicant :—COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors :—CHINNASAMY CHAKKARAVARTHY AND HANADY VENKATAKRISHNA UDUPA.

Application for patent no. 188|Del|80 filed on 14th March, 1980.

Complete Specification left on 12th June, 1981.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

An improved process for the fabrication of porous bicarbon air electrode for metal-air cells for high current output comprising die moulding of a tin plated expanded mild steel grid in the form of a packet, cooling the same with a uniform layer of acetylene black and a plastic binder mix, further cutting the same with layer of activated carbon, electrolytic manganese dioxide, acetylene black and a plastic binder, heating the die and pressing at a pressure of 300 to 350 kg/cm<sup>2</sup> at a temperature of 130°—140°C, cooling the die to obtain metal reinforced carbon plates for use to form the electrode.

(Provisional Specification 5 pages)

Complete Specification 13 pages.

CLASS : 70C. 153824

Int. Class : B44, 1|04, C23, 5|06.

"AN IMPROVED ELECTROLYTIC PROCESS FOR THE PRODUCTION OF CHROMIUM DEPOSITS ON NICKEL PLATED METAL SUBSTRATES FOR OBTAINING DECORATIVE NICKEL CHROMIUM FINISHES THEREON".

Applicant :—COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : HANADY VENKATAKRISHNA UDUPA, SANNANALLUR RAMACHANDRAN NATARAJAN, SRINIVASAN SRIVEERARAGHAVAN, RAMANATHAN KRISHNAN.

Application for patent no. 189|Del|80 filed on 14th March, 1980.

Complete specification left on 11th June, 1981.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

An improved electrolytic process for the production of chromium deposits on nickel plated metal substrate for obtaining decorative nickel-chromium finish therein comprising using an electrolytic bath consisting of 150 to 200 g/l of chromium trioxide, 1.0 to 2.0 g/l of sulphuric acid, 0.5 to 2.0 g/l of an acid with perhalate anion, and 1.0 g/l of trivalent chromium at a temperature in the range of 45°C to 50°C and cathodic current density of 1500 to 2325 A/m<sup>2</sup>.

(Provisional specification 6 pages)

(Complete specification 6 pages)

CLASS : 206D, 4A<sub>3</sub> 153825

Int. Class : G06f 15|48, G08g 5|02, B64d 45|04

"APPARATUS FOR ESTIMATING SLANT VISIBILITY IN FOG"

Applicant : The Secretary of State for Defence in Her Britannic Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, of Whitehall, London SW1A 2HB, England, a British Corporation Sole.

Inventor : ALAN WORTHING PUFFETT.

Application for patent no. 203|Del|80 filed on 18th March, 1980.

Convention date 19th March, 1979|7909508 (U.K.).

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(14 Claims)

Apparatus for estimating slant visual range in fog comprising :

a transmissometer array, having at least three transmissometer elements at differing heights above the ground so as to permit the three respective measurements of transmissivity between heights and ground level, for generating transmissometer signals indicative of a fog strength; characterised by :

a slant visual range (SVR) computer coupled to the transmissometer array so as to receive the transmissometer signals therefrom, the computer including

signal conversion means adapted to convert the transmissometer signals into signals =h<sub>1</sub>, =h<sub>2</sub>, =h<sub>3</sub>, representing the mean integral of extinction coefficient between respectively greater heights h<sub>1</sub>, h<sub>2</sub>, h<sub>3</sub>, above ground and ground level;

store means adapted to store a predetermined set of mean integral of extinction coefficient =h function models, each model characterising a different type of fog structure, model having predetermined criteria for its selection and use, and containing at least one empirical constant;

means connected both to the transmissometer signal conversion means and the model store means and adapted to select one of the models in accordance with values of h<sub>1</sub>, h<sub>2</sub>, h<sub>3</sub>, determined by the means for converting;

determining means connected to the model selection means and adapted to determine the values of the constants in the selected model, thereby to obtain a definitive mean integral of extinction coefficient profile;

means adapted to store values representing airfield lighting and to accept values representing flight path and background brightness, and

means connected to the determining means and its airfield lighting store means and adapted to estimate slant visual range from the definitive profile and the airfield lighting, background brightness and flight path values.

(Complete Specification 39 pages Drawing 13 sheets).

CLASS : 32F 3(a), F3(b); 55E. 153826.

Int. Class : A6Jk 27/00, C07d 7/34.

**"A PROCESS FOR THE PREPARATION OF 5-(2-HYDROXY-3-THIOPROPOXY) CHROMONE-2-CARBOXYLIC ACIDS AND THEIR SALTS".**

Applicant : SANOFI, A FRENCH COMPANY, FORMERLY KNOWN AS OMNIUM FINANCIER AQUITAINE POUR L'HYGIENE ET LA SANTE (SANOFI), WHOSE REGISTERED ADDRESS IS 40, AVENUE GEORGE V, 75008, PARIS, FRANCE, FORMERLY AT HAUTS-DE-SEINE, TOUR ACQUITAINE, COURBEVOIE, FRANCE.

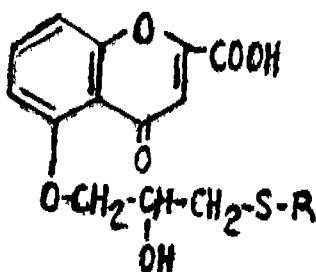
Inventors :—ANDREA PEDRAZZONI AND SERGIO BOVERI.

Application for patent No. 205/Del/80 filed on 18th March, 1980.

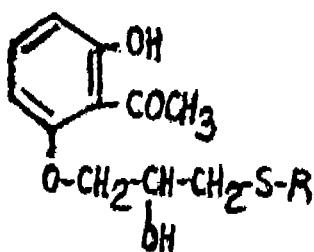
Appropriate Office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch New Delhi-110005,

(4 Claims)

A process for the preparation of 5-(2-hydroxy-3-thiopropoxy) chromone-2-carboxylic acids of the formula I

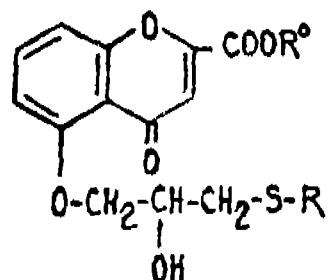


and their non-toxic pharmaceutically acceptable salts wherein R is a member selected from the group consisting of alkyl groups of from 1 to 16 carbon atoms, alkenyl groups of 3 to 4 carbon atoms, hydroxyalkyl groups of 2 to 4 carbon atoms, cycloalkyl groups of from 3 to 8 carbon atoms and cycloalkylalkyl groups of from 4 to 9 carbon atoms which comprises reacting dialkyl oxalate of formula (COOR<sup>o</sup>) where R<sup>o</sup> is an alkyl group of from 1 to 4 carbon atoms with a 6-(2-hydroxy-3-thiopropoxy) acetophenone of formula IV



wherein R has the above stated meaning, in the presence of an alkaline condensing agent such as herein described and treating the reaction mixture with an acid such as herein

described to obtain 5-(2-hydroxy-3-thiopropoxy) chromone-2-carboxylic acid ester of formula V



wherein R and R<sup>o</sup> have the above stated meaning, hydrolyzing the 5-(2-hydroxy-3-thiopropoxy) chromone-carboxylic acid ester to obtain the acids of formula I

and optionally converting the acids into their non-toxic pharmaceutically acceptable salts by conventional methods.

(Complete Specification 19 pages Drawing one sheet).

CLASS : 32F. 153827.

Int. Class : C07f 1/00.

**PROCESS FOR THE PREPARATION OF TRIHALOMETHYL CARBONATE DERIVATIVES".**

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CARD VAN BIGLANDTLAAN 30, THE HAGUE, THE NETHERLANDS, A COMPANY ORGANISED UNDER THE LAWS OF THE NETHERLANDS, A RESEARCH COMPANY.

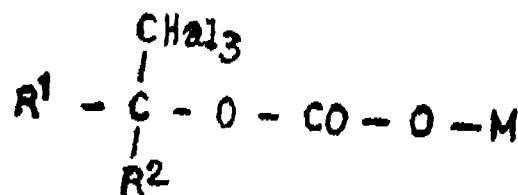
Inventors : PETRUS ANTHONIUS KRAMER & PIETER ADRIAAN VERBRUGGE.

Application for patent No. 220/Del/80 filed on 25th March, 1980. Convention date 27th March, 1979/7910661 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

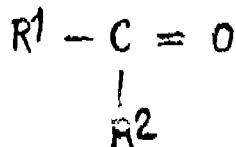
(6 claims)

A process for the preparation of a trihalomethyl carbonate of the general formula I

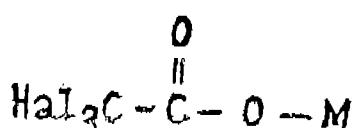


wherein R<sub>1</sub> represents an optionally substituted cyclopropyl or an optionally-substituted alkyl group such as herein described R<sup>o</sup> a methyl group or a hydrogen atom or R<sup>1</sup> and R<sup>2</sup> together with the carbon atom to which they are attached jointly form a cycloalkyl group, each Hal is a chlorine or bromine atom and M represents an alkali metal atom, char-

acterized in that a carbonyl compound of the general formula II



wherein R<sup>1</sup> and R<sup>2</sup> have the same meaning as in formula I, is reacted under substantially anhydrous conditions with a trihaloacetate of the general formula III



wherein Hal and M have the above mentioned meaning, in the presence of a highly polar, aprotic inert solvent such as herein described,

(Complete specification 20 pages Drawing 1 sheet).

Class :—99 E 153828

Int. Class :—G01k 1/08.

**"CONTAINER FOR THERMOMETERS".**

Applicant :—VEDA PRAKASH GUPTA, an Indian citizen, of Tika Ram Mandir, Marg Aligarh, Uttar Pradesh India.

Inventor :—VEDA PRAKASH GUPTA.

Application for patent No. 221|Del|80 filed on 25th March, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(6 claims)

An elongate container for thermometer comprising a mounting portion and a cover portion pivotally connected together at one end thereof, said mounting portion having at least one securing member for holding the stem of a thermometer when located therein, said cover portion or said mounting portion being provided with at least one tab at the free end thereof.

(Complete specification 6 pages Drawing 1 sheet).

CLASS 24(B+F) 153829

Int. Cl. F 16 d 65/00+65/04.

**S-CAM BRAKE**

Applicant : BRAKES INDIA LIMITED, PAID, MADRAS-600 050, TAMIL NADU.

Inventors : (1) NAGENAHALLI KHADER MOHAMMED SHAFI, (2) KRISHNASWAMY VASU.

Application No. 174|Mas|81 filed September 26, 1981.

Complete Specification left October 25, 1982.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

A S-cam brake comprising a brake-drum encircling a pair of brake shoes, the tips of the shoes at one end thereof being operable by known means for taking up wear, characterised in that the tips of the shoes at the other end thereof are held in contact with a pair of tappets flanking a S-cam, whereby the S-cam is actuatable to urge the tappets against the latter tips and thus thrust the shoes outwardly against the brake drum, to execute a braking action.

(Prov.—3 pages; Com.—6 pages; Drwgs.—4 sheets)

CLASS 191

153830

Int. Cl. B 41 j 11|00.

**A TYPEWRITER COPYING ATTACHMENT**

APPLICANT & INVENTOR : CHALAPAKA SRINIVASA RAO, LAKSHMINAGAR, VIJAYAWADA-520 013, ANDHRA PRADESH.

Application No. 184|Mas|81 filed October 8, 1981.

Complete specification left October 27, 1981.

Appropriate Office for Opposition Proceedings, (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

8 Claims

A typewriter copying attachment comprising a platform for receiving and supporting the job; a movable slotted index member for resting on the job, the slot exposing a portion of the writing on the job; a lever linkable to, and actuatable by, the carriage of a known typewriter, whenever the carriage reaches a predetermined point in its traverse; drive means coupled to the lever and to the index member, the drive means moving the index member along the job over a predetermined spacing, whenever the lever is actuated by the carriage, the arrangement being such that as the job is being copied on the typewriter, the portion of the job to be copied alone is visibly framed in the slot.

(Prov.- 7 pages; Com.-9 pages; Drwgs.-2 sheets)

CLASS : 168-D.

153831

Int. Cl. E01f 9|00.

**A TRAFFIC CONE**

Applicants & Inventors : ABDUS SALAM, AMIR MAHAL, PYCROFTS ROAD, MADRAS-600 014, TAMIL NADU & SUDARSANLAL GUPTA, 172, LUZ CHURCH ROAD, MADRAS-600 004, TAMIL NADU.

Application No. 208|Mas|81 filed November 16, 1981.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

(4 claims)

A traffic cone comprising a hollow conical body having a base extending beyond the periphery of the said body characterised in that the interior of the base is radially ribbed at intervals, the body and the base being made of flexible plastic, whereby the light-weight structure of the body and base is rendered sufficiently stable against overturning forces.

Compl. 5 pages.

Drws. 2 sheets.

CLASS : 171.	153832	(3 claims)
Int. Cl. G02c 13 00.		
A SPECTACLE FRAME IN-SITU ADJUSTMENT DEVICE.		
Applicant & Inventor : PERIAKKANDI VELUNATHAN, PLOT NO. 710, K. K. NAGAR, EVR ROAD, TIRUCHIRAPALLI-620 021, TAMIL NADU.		
Application No. 74 Mas 82 filed April 12, 1982.		
Complete specification left April 7, 1983.		
Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.		
(8 claims)		
A spectacle frame in-situ adjustment device comprising a substantially annular disc provided with an orifice adapted to receive the free end of a hinged arm of said spectacle frame and to pass along said arm for location at the hinge point thereof, the cross-section of said disc varying at diametrically opposite sides whereby the upper and lower surfaces of said disc are inclined in relation to each other.		
Prov. 6 pages. Compl. 9 pages;	Drgs. 1 sheet.	
CLASS : 60-B.	153833	
Int. Cl. B21d 53 41		
A PRESS BUTTON.		
Applicants & Inventors : (1) BANGALORE NANJAPPA SARASWATHI, (2) NOWRANGILAL KISHORE KUMAR, (3) LAKHMI DEVI VENKANNA, (4) MANUEL SAMUEL JOTHI, (5) PADMA GANGAHANUMAIAH & (6) VASANTHI KUPPU SWAMI, ALL OF F.J.V. ENTERPRISES, 220 9, NATIONAL HIGH SCHOOL ROAD, VISVESWARAPURAM, BANGALORE-560 004, KARNATAKA.		
Application No. 155 Mas 82 filed August 7, 1982.		
Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.		
(2 claims)		
A press button comprising a pair of mating parts, each provided with a plurality of spaced slots, characterised by a pair of corresponding fastening members each terminating in an equal plurality of spaced sharp projections, whereby whenever cloth is sandwiched between each mating member and the corresponding fastening member, with the projections piercing the cloth and emerging from the slots, the mating members are fastened to the cloth by crimping the emergent portions of the projections.		
Compl. 4 pages.	Drgs. 1 sheet.	
CLASS : 15-D.	153834.	
Int. Cl. F16c 33 80.		
A SEAL FOR A CONVEYOR IDLER.		
Applicant : CONVEYOR EQUIPMENT COMPANY PRIVATE LTD., 2, RACE COURSE ROAD (NORTH), GUINDY, MADRAS-600 032, TAMIL NADU.		
Inventor : 1. KRISHNAMURTHY RAMASWAMY (2) VENKATA SUBRAMANIAM NABHASIVAN.		
Application No. 183 Mas 82 filed September 29, 1982.		
Complete specification left November 16, 1982.		
Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.		
(3 claims)		
A seal for a conveyor idler for use with a housing receivable at either end of the idler for accommodating a bearing therein, comprising a three piece body disposable against the bearing in a push-fit within the housing, the central piece of the body having an internal T-Section collar for encircling the idler shaft while the remaining two end pieces have been matching channel recesses for receiving the collar to form a labyrinthine passage therebetween.		
Prov. 4 pages. Com. 5 pages.	Drgs. 1 sheet.	
CLASS : 32F1.	153835.	
Int. Cl. C07d 55 42.		
A PROCESS FOR THE PRODUCTION OF SOLID CYANURIC CHLORIDE.		
Applicants : DEUTSCHE GOLD-UND SILBER SCHEID-EANSTALT VORMALS ROESSLER, OF 9 WEISAFRANE-UNSTRASSE, FRANKFURT (MAIN), FEDERAL REPUBLIC OF GERMANY.		
Inventors : 1. DR. FALF GOEDECKE, 2. UWE KURANDT, 3. MARTIN LIEBERT, 4. PROF. DR. DIETER MEWES, 5. DR. WOLFGANG NISOHK.		
Application No. 892 Cal 79 filed August 29, 1979.		
Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.		
(6 claims)		
A process for the recovery of solid cyanuric chloride by spraying liquid cyanuric chloride characterised by spraying the liquid cyanuric chloride which is preferably as far as possible free from chlorine and cyanogen chloride, into a separation chamber by means of a conventional spraying device while indirectly cooling said chamber sufficiently to solidify the cyanuric chloride.		
Compl. specn. 20 pages.	Drgs. 1 sheet.	
CLASS : 32F1.	153836.	
Int. Cl. C07d 55 42.		
A PROCESS FOR THE RECOVERY OF SOLID CYANURIC CHLORIDE BY SPRAYING LIQUID CYANURIC CHLORIDE IN PRESENCE OF A COOLING AGENT.		
Applicants : DEUTSCHE GOLD-UND SILBER-SCHEIDE-ANSTALT VORMALS ROESSLER, OF 9, WEISSFRAUENSTRASSE, FRANKFURT (MAIN), FEDERAL REPUBLIC OF GERMANY.		
Inventors : 1. DR. FALF GOEDECKE, 2. UWE KURANDT, 3. ROLF MOLLER.		
Application No. 893 Cal 79 filed August 28, 1979.		
Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.		
(9 claims)		
A process for the recovery of solid cyanuric chloride by spraying liquid cyanuric chloride in presence of a cooling agent characterized in that the liquid cyanuric chloride is sprayed into a separation chamber by means of a spraying device while simultaneously a liquid cooling medium comprising solvent for cyanuric chloride is also sprayed separately into the separation chamber, the temperature of the separation chamber being maintained above the boiling point of the said solvent, the solid cyanuric chloride thereby obtained being removed from the separation chamber while the solvent vapours leaving the separation chamber and containing some cyanuric chloride being recovered and processed further by washing with the same solvent to recover condensed solvent containing dissolved cyanuric chloride which is recirculated.		
Compl. specn. 24 pages.	Drgs. 1 sheet.	

CLASS : 32F<sub>2</sub>b.

153837.

Int. Cl. C07d 55|46.

## A PROCESS FOR PRODUCTION OF CHLORO-AMINO-S-TRIAZINES.

Applicants : DEUTSCHE GOLD-UND SILBER SCHEIDE-ANSTALT VORMALS ROESSLER, OF 9, WEISSFRAUEN-STRASSE FRANKFURT (MAIN), FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DR. Klaus HENTSCHEL, 2. DR. FRIEDRICH BITTNER.

Application No. 898|Cal|79 filed August 29, 1979.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## (5 Claims)

A process for the manufacture of chloro-amino-S-triazines from cyanuric chloride which comprises reacting cyanuric chloride in the presence of conventional acid binding medium with the required substituent producing compound as herein described in appropriate proportion the reaction being carried out using liquid cyanuric chloride which is preferably free from chlorine and cyanogen chloride and its fusion temperature, the said liquid cyanuric chloride being sprayed through a nozzle from the top of a tubular reactor as claimed in Indian Patent 150808 and in the presence of an inert gas, the other reactants being also sprayed from below towards the top in a tangential manner through one or more nozzles situated near the S-shaped zone of the said reactor, the two liquids being so sprayed that a layer of said liquid cyanuric chloride is built up along the entire chamber wall upto the nozzle for cyanuric chloride, the thickness of the layer being more at the said S-shaped zone than in the rest of the wall of the chamber, the other reactant being fed just above the said S-shaped zone so that intimate reaction between the liquid reactants occurs to produce the desired end product.

Compl. specn. 20 pages.

Drgs. 2 sheets.

CLASS : 32F<sub>2</sub>b.

153838.

Int. Cl. C07d 55|36.

## A PROCESS FOR THE MANUFACTURE OF TRI-SUBSTITUTED-S-TRIAZINE.

Inventors : 1. DR. KLAUS HENTSCHEL, 2. DR. FRIEDRICH BITTNER.

Applicants : DEUTSCHE GOLD-UND SILBER SCHEIDE-ANSTALT VORMALS ROESSLER, OF 9, WEISSFRAUEN-STRASSE FRANFURT (MAIN), FEDERAL REPUBLIC OF GERMANY.

Application No. 900|Cal|79 filed August 29, 1979

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## (2 Claims)

A process for the manufacture of tri-substituted-S-Triazine from cyanuric chloride by reacting cyanuric chloride with the required reactant which as herein described in the presence of an acid binding agent characterised in that liquid cyanuric chloride, which is free from chlorine and cyanogen chloride and is at its fusion temperature, is sprayed downwards through a spraying nozzle, preferably in the presence of an inert gas, said nozzle being provided in the upper part of a tubular reactor as described and claimed in Indian Patent Specification No. 150808, the other reaction component(s) is introduced through one or more nozzles into said reactor and above the level of the 'S'-shaped tapering region of the said reactor, the said other reactant(s) being introduced tangentially in one or more jets through the said nozzles, the jets of other reactant(s) being tangentially introduced upwards towards the said spray of liquid cyanuric chloride, the sprayed liquid cyanuric chloride thereby building up or forming a liquid layer of same throughout the entire zone along the walls of the reactor, the layer of liquid cyanuric being thicker in the said 'S'-shaped region than in the other parts of the reactor.

Compl. specn. 16 pages.

Drgs. 2 sheets.

CLASS : 32f<sub>2</sub> b.

153839.

Int. Cl. C07d 55|00.

## PROCESS FOR THE PREPARATION OF 2-ALKOXY-4,6-DICHLORO-S-TRIAZINES.

Applicants : DEUTSCHE GOLD-UND SILBER SCHEIDE-ANSTALT VORMALS ROESSLER, OF 9, WEISSFRAUEN-STRASSE FRANKFURT (MAIN), FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DR. KLAUS HENTSCHEL, 2. DR. FRIEDRICH BITTNER.

Application No. 901|Cal|79 filed August 29, 1979.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## (5 Claims)

A process for the manufacture of 2-Alkoxy-4,6-Dichloro-S-Triazines by reacting cyanuric chloride with required alcohols or alcoholates in the presence of an acid binding medium characterised in that liquid cyanuric chloride, which is free from chlorine and cyanogen chloride and is at its fusion temperature, is sprayed downwards through a spraying nozzle, preferably in the presence of an inert gas, said nozzle being provided in the upper part of a tubular reactor as described and claimed in Indian Patent Specification No. 150808 in which the other reaction component(s) is introduced through one or more nozzles into said reactor and above the level of the 'S'-shaped tapering region of the said reactor, the said other reactant(s) being introduced tangentially in one or more jets through the said nozzles, the jets of other reactant(s) being tangentially introduced upwards towards the said spray of liquid cyanuric chloride, the sprayed liquid cyanuric chloride thereby building up or forming a liquid layer of same throughout the entire zone along the walls of the reactor, the layer of liquid cyanuric being thicker in the said 'S'-shaped region than in the other parts of the reactor.

Compl. specn. 14 pages.

Drgs. 2 sheets.

CLASS 71D-B; 131B<sub>3</sub>.

153840.

Int. Cl. E21c 35|00.

## SCRAPER CHAIN CONVEYOR APPARATUS.

Applicants : GUTENOFFNUNGSHUTTE STERKRADE AKTIENGESELLSCHAFT, OF BAHNHOFSTRASSE 66, 4200 OBERNAUSEN 11, FEDERAL REPUBLIC OF GERMANY.

Inventors : DR. ING. KARL-KEINZ SCHWARTING, 2. DIPL-ING. ROLAND GUNTHER.

Application No. 1035|Cal|79 filed October 6, 1979.

Convention date 4th October 1979 (34413|79) U.K.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## (2 Claims)

A scraper chain conveyor apparatus comprising a plurality of conveyor sections each having a major surface portion, first wall means at one side of the major surface and provided with a flange extending partially across and spaced from the major surface portion, and second wall means at an adit region at a respective opposite side of the major surface portion, the conveyor further comprising a toothed rack which is connected to the second wall means for a chainless advance of extraction machinery and which comprises a plurality of first and second rack devices so alternately disposed along the second wall means of the conveyor sections, each first rack device comprising a first element having respectively opposite bifurcated end portions which each receives an adjacent end portion of an adjacent first element of a second rack device and is connected thereto by a respective pin member and each first element of each rack device being spaced from and connected to a mutually facing respective second element disposed between the first and second wall means, the second elements acting as means for holding down scraping irons of the conveyor and the first

rack devices each comprising a respective box-shaped member provided with a leading ramp surface having one end portion extending beyond the respective conveyor section at one end portion thereof and a respective opposite end portion terminating short of the respective conveyor section at the respectively opposite end portion thereof.

Compl. specn. 12 pages.

Drgs. 2 sheets.

CLASS : 39P.

153841.

Int. Cl. C01b 17|96; C01d 5|02; C01f 11|46; C01g 49|14.

A PROCESS FOR THE PREPARATION OF ALUMINUM CALCIUM AND FERROUS AND THE LIKE METAL VALUES FROM HIGH ASH WASHERY TAILINGS, FLY ASH AND ALIKE COAL WASTE MATERIALS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG., NEW DELHI-110001, INDIA.

Inventors : 1. KARTICK CHANDRA NATH, 2. KRISHNA RAJA, 3. GOUR HARI KARMAKAR AND 4. GOUR GOPAL SARKAR.

Application No. 431|Cal|80 filed April 14, 1980.

Complete specn. left 11th May 1981.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

An improved process for preparation of aluminium, calcium, ferrous and the alike metal values from high ash washery tailings, fly ash and like coal waster materials comprising reacting the said tailings with sulphuric acid, subjecting the filtrate to evaporation and crystallisation to separate the said metal sulphates, characterised in that the tailings acid reaction is carried out over a period of 5-6 hours at a temperature upto 200°C and the metal sulphates are separated from the filtrate by fractional crystallisation and ferrous sulphate formed in the remanant filtrate is subjected to reductions with a carbonaceous reducing agent to obtain ferric sulphate and separated by crystallization.

Compl. specn. 9 pages.

Drgs. Nil.

Prov. specn. 2 pages.

CLASS : 182B.

153842.

Int. Cl. C07c 47|18

METHOD FOR CONVERTING STRACH HYDROLYZATE TO DEXTROSE CONTAINING SYRUP USING GLUCOAMYLASE IMMOBILIZED ON POROUS ALUMINA.

Applicants : CPC INTERNATIONAL INC., AT INTERNATIONAL PLAZA, ENGLEWOOD CLIFFS, NEW JERSEY 07632, UNITED STATES OF AMERICA.

Inventors : 1. MUKHTAR ABDULLAH, 2. FREDERIC C. ARMBRISTER.

Application No. 485|Cal|80 filed April 26, 1980.

Convention date 7th March 1980 (193, 068) (New Zealand).

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

A process for converting a starch hydrolyzate, having a D.E. of between 10 and 80, to a dextrose-containing syrup which comprises :

a. treating the starch hydrolyzate with ion-exchange resins until its ash content is less than 0.1% on a dry basis;

b. contacting the deionized starch hydrolyzate with an immobilized enzyme composite consisting essentially of glucoamylase sorbed on porous alumina;

- c. separating the treated hydrolyzate from said enzyme composite; and
- d. recovering the dextrose product from the treated hydrolyzate.

Compl. specn. 21 pages.

Drgs. Nil.

CLASS : 39P.

153843.

Int. Cl. B01d 33|00.

#### A FILTERING APPARATUS.

Applicant & Inventor : DR. WERNER STAHL, OF STALBUSHLWEG 80, 6740 LANDAU, WEST GERMANY.

Application No. 1290|Cal|80 filed November 18, 1980.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims

A filtering apparatus having a filter unit designed for vacuum filtration using a layer of filtering material for keeping back solids and letting through liquid, characterised in that the complete vacuum filter unit (10, 20, 40), together with a system for turning and supporting as normally used in the case of a revolving filter, is housed in an air-tight space (11) shut off from the outside atmosphere and put under a gage pressure, and in that at least one air lock (12) is present for the outlet of materials from the filter unit, the air lock being placed between the gas pressure space (11) and an output space kept at a predetermined pressure.

Compl. specn. 16 pages.

Drgs. 3 sheets.

CLASS : 136C-E; 129P.

153844.

Int. Cl. B23b 49|00; B30b 11|22.

#### CENTERING DEVICE FOR SHAPING TOOLS OF EXTRUSION PRESSES.

Applicants : WAVIN B.V., OF 251 HANDELLAAN, 8031 EM ZWOLLE, NETHERLANDS.

Inventors : 1. EDUARD JOSEPH BUDEL, 2. HEINRICH FEHRMANN, 3. JOHAN DE KOK.

Application No. 1433|Cal|80 filed December 26, 1980.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims

A centering device for shaping tools of extrusion presses, wherein an outer mandrel (1) together with an inner mandrel (2) defines a through gap (3) for plastics material or the like extrusion material, comprising a plurality of centering members supported on the outer mandrel (1) located in a radial plane and distributed over the periphery and adjustable in radial direction, said centering members being constructed in the form of push rods (6, 106) guided for radial displacement, and comprising adjustable levers (7, 107), pivotally supported on the outer mandrel (2) and each actuatable by means of a tightening device (8, 108) and forming a transmission gear for the tightening force, said adjustable levers being in direct engagement with the push rods (6, 106) as individual drives, characterized in that each push rod (6, 106) has a one-arm adjustable lever (7, 107) associated thereto which in the region between its pivot bearing (13, 113) and the point of action of its tightening device (8, 108) is in direct engagement with its push rod (6, 106), and in that the pivotal axes of the adjustable levers (7, 107) are aligned parallel to the longitudinal central axis (10, 110) of the shaping tool.

Compl. specn. 12 pages.

Drgs. 4 sheets.

CLASS : 39E.

153845.

Int. Cl. C01b 15/04.

PROCESS FOR THE DIRECT PREPARATION OF AN ALKALI METAL OR ALKALINE EARTH METAL PEROXIDE IN FINELY DIVIDED FORM.

Applicants : INTEROX CHEMICALS LIMITED, HANOVER HOUSE, 14 HANOVER SQUARE, LONDON W1R 0BB, ENGLAND.

Inventors : 1. DOUGLAS PATERSON HAUGHEY, 2. MALCOLM HOWARD MILLER.

Application No. 511|Cal|81 filed May 14, 1981.

Convention date 15th May 1980 (8016015) (U.K.).

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 12 Claims

A process for the direct preparation of an alkali metal or an alkaline earth metal peroxide in finely divided form by reacting hydrogen peroxide and a hydroxide or oxide of the alkali metal or alkaline earth metal in an aqueous medium and separating the peroxide from the aqueous medium in the form of a moist peroxide product having a moisture content of from 10% to 45% by weight is dried by means of a pneumatic conveyor drier operating at an air inlet temperature of at least 150°C.

Compl. specn. 12 pages.

Drgs. Nil.

CLASS : 68B<sub>1</sub>; 206E.

153846.

Int. Cl. G05f 1/00.

#### MEANS FOR SUPPLYING ELECTRICAL POWER.

Applicants : XEROX CORPORATION, OF XEROX SQUARE, ROCHESTER, NEW YORK, UNITED STATES OF AMERICA.

Inventor : 1. WARREN LEVOY HALL JR.

Application No. 1038|Cal|80 filed September 11, 1980.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

A means for supplying electrical power for a load, including terminals across which power source is to be connected, and connected through a switch with terminals across which the load is to be connected; means, electrically isolated from the power source terminals, for sampling the output voltage of the power source; a comparator for comparing the sampled voltage with a reference voltage signal, and means for varying the duty cycle of the switch in dependence on the output of the comparator so as to regulate the voltage applied across the load.

Compl. specn. 13 pages.

Drgs. 3 sheets.

CLASS : 70A-B

153847

Int. Cl. H01 m 27/04; 3/04.

ELECTROLYSIS APPARATUS USING A DIAPHRAGM OF A SOLID POLYMER ELECTROLYTE, AND METHOD FOR PRODUCTION THEREOF.

Applicants : PERMELEC ELECTRODE LTD., OF NO. 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. HIROSHI ASANO, 2. TAKAYUKI SHIIMUNE, 3. TOSHIKI GOTO.

Application No. 1435|Cal|80 filed December 26, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 19 Claims

An electrolysis apparatus comprising a diaphragm of a solid polymer electrolyte of the type described, and an anode electrode structure and a cathode electrode structure (of the type described) located on both sides of said diaphragm, at least one of said electrode structures intimately contacting the surface of said diaphragm, said intimately contacting electrode structure comprising a gaspermeable electrically conductive substrate of the type described and a film-like porous electrode catalyst layer of the type described bonded in a manner described hereinbefore integrally thereto.

Compl. specn. 28 pages.

Drgs. 1 sheet

CLASS : 108B<sub>2</sub>b; 85R.

153848

Int. Cl. C 21 b 1/14; F 27 b 1/08.

AN IMPROVED VERTICAL SHAFT FURNACE FOR CONTINUOUS DIRECT REDUCTION OF IRON ORE OR THE LIKE.

Applicants & Inventor : PRATIK KUMAR GHOSH, 82, HARIGHOSH STREET, CALCUTTA-700006, WEST BENGAL, INDIA.

Application No. 140|Cal|81 filed February 6, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims

An improved vertical shaft furnace for continuous direct reduction of iron ore or the like in that the charge consisting of compacts made from a mixture of metallic oxides such as hematite or magnetite, carbon fines and flux, the charge is continuously fed to the furnace by the charging device at the furnace and as the charge gravitates downwards it is gradually and uniformly heated by burning either gaseous fuel like producer gas, coke-oven gas or the like injected to the furnace below the cooling zone through radially placed tuyers or by partly gaseous fuel and partly by carbon an excess of which is incorporated in the compacts or by carbon exclusively incorporating the required amount in the compacts to a temperature in the range of 850—1100°C to cause reduction of the metallic oxides and wherein the oxygen required for the combustion of the fuel is met by preheated air to be injected in the furnace through radially placed tuyers, the region above the combustion air injection tuyers is the reduction zone and the region below the combustion air injection tuyers is the cooling zone, thermocouple to control the temperature of the reduction zone within a very close limit to the preset value by controlling the electrically actuated valves, the metallised product will be continuously discharged from the bottom of the furnace by inert gas (such as nitrogen or the like) sealed discharge mechanism in cold condition characterised in that the hot metallised iron will be cooled by either fuel gas or cold recycle top gas in the cooling zone, the exist hot top gas will have gas cleaning/recovering facilities.

Compl. specn. 13 pages.

Drgs. 2 sheets

CLASS : 130G.

153849

Int. Cl. C 21 c 7/00.

A DEVICE WITH AUTOMATIC CONTROL MEANS FOR INJECTING POWDERED REAGENT INTO A POOL OF MOLTEN METAL.

Applicants & Inventor : VICTOR BENATAR, 1191 HOPKINS TERRACE, ATLANTA, GEORGIA 30324, U.S.A.

Application No. 197|Cal|81 filed February 20, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims

A device with automatic control means for injecting powdered reagent into a pool of molten metal through a lance whose discharge end is submerged in the molten metal and to which the powdered reagent is conveyed by a flow of carrier gas, an arrangement for responding to a defective operating condition of the lance comprising sensing means for deriving a signal dependent upon the rate of flow of carrier gas to the lance, and control means operable in co-ordination with the derivation of said signal for controlling the flow of powdered reagent and carrier gas.

Compl. specn. 11 pages.

Drgs. 1 sheet.

## OPPOSITION PROCEEDINGS

(1)

The application for patent No. 141987 made by Dr. Dasarathi Banerjee in respect of which opposition was entered by Shri Narayanswamy Rajamani of R.D.S.O. as notified in the Gazette of India, Part-III, Sec. 2, dated the 29th October, 1977; the opposition has been partly succeeded and a patent has been ordered to be sealed subject to amendment of the specification.

(2)

An opposition has been entered by Director General, Research Designs and Standards Organisation to the grant of a patent on application No. 152522 made by Franz Plasser Bahnbaumaschinen—Industriegesellschaft M.B.H.

(3)

An opposition has been entered by Director General, Research Designs and Standards Organisation to the grant of a patent on application No. 152567 made by Estel Hoesch Werke Aktiengesellschaft.

(4)

An opposition has been entered by National Research Development Corporation of India to the grant of patent on application No. 152667 made by Permelec Electrode Ltd.

## PATENTS SEALED

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## AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Diamond Shamrock U.K. Limited formerly known as Diamond Shamrock Industrial Chemicals Limited, a British Company of Emerson House, Albert Street, Eccles, Manchester M 30 0LJ, England have made an application under Section 57 of the patents act for effecting change in their name in the application for Patent No. 152382 for Plasticiser Compositions and Articles made from Synthetic Resins, particularly Polyvinyl Chloride, containing said Plasticiser Compositions. The amendments are in respect of change in the name of the applicants. The

amendment can be inspected free of charge at the Patent Office Branch, Municipal Market Building, 3rd Floor, Saraswati Marg, Karol Bagh, New Delhi-110 005 or copies of the same can be had from that office on payment of the usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification at the Patent Office Branch, New Delhi. If written statement of opposition is notified with the notice of opposition it shall be left within one month from the date of filing the said notice.

## RENEWAL FEES PAID

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## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 154511. Geep Industrial Syndicate Limited (formerly known as Geep Flashlight Industries Limited) Manufacturers, of 28, South Road, Allahabad, India, an Indian Company. "a Pen Lite Torch". 15th June, 1984.

Class 1. No. 153889. Pritam Dass Sharan, trading as Sharan Equipment Techniques, Majra, Saharanpur Road, Dehradun, Uttar Pradesh, Indian National. "Clutch Plate". 19th December, 1983.

Class. 1. No. 153893. Pritam Dass sharan, trading as Saharan Equipment Techniques, Majra, Saharanpur Road, Dehradun, Uttar Pradesh, Indian National. "Clutch Plate". 19th December, 1983.

Class 1. No. 154357. The Parker Pen Company, a company organized and existing under the laws of the State of Delaware, United States of America, of One Parker Place, Janesville, Wisconsin 53545, United States of America. "A Writing Instrument". 27th April, 1984.

Class 1. No. 154358. The Parker Pen Company, a company organized and existing under the laws of the State of Delaware, United States of America, of One Parker Place, Janesville, Wisconsin 53545, United States of America. "A Writing Instrument". 27th April, 84.

Class 1. 154152. Rehman Industries (India), 2848-Bulbuli Khana, Bazar Sita Ram, Delhi an Indian Proprietorship concern. "Sharpener". 12th March, 1984.

Class 3. No. 154510. Geep Industrial Syndicate Limited (formerly known as Geep Flashlight Industries Limited). Manufacturers, of 28, South Road, Allahabad, India, an Indian Company. "Cycle Lite Torch". 15th June, 1984.

Class 3. No. 153993. Anjali Products, 170 Bombay Talkies Compound, Malad (West), Bombay-400 064 State of Maharashtra, India. "Glass & Mug Holder". 21st January, 1984.

Class 3. No. 154297. Bharat Plastic Industries, an Indian Proprietary concern, A-8613, Wazirpur Industrial Area, Delhi-110 052. "Bonnet Guard". 16th April, 1984.

Class 3. No. 153886. Colgate-Palmolive Company, a corporation organized under the laws of the State of Delaware, United States of America, of 300 Park Avenue, New York, New York 10022, United States of America. "Toothbrush". 17th December, 1983.

Class 3. No. 154344. ACA-DAN BEVERAGE A/S, a Danish Company of Glasvaenget 8, DK-5492 Vissenbjerg, Denmark. "Beverage Dispensing Machine". 23rd April, 1984.

Class 3. No. 154345. ACA-DAN BEVERAGE A/S, a Danish Company of Glasvaenget 8, DK-5492 Vissenbjerg, Denmark. "Beverage Dispensing Machine". 23rd April, 1984.

Class 3. No. 154311. Eagle Flask Private Limited, a company incorporated under the Indian Companies Act, at Eagle Estate, Talegaon 410 507, Maharashtra State, India. "Integrated Dinner Plate". 16th April, 1984.

Class 3. No. 154312. Eagle Flask Private Limited, a company incorporated under the Indian Companies Act, at Eagle Estate, Talegaon 410 507, Dist. Pune, State of Maharashtra, India. "Integrated Dinner Plate". 16th April, 1984.

Class 3. No. 154263. Reico Electronics and Electricals Limited, of Shivasagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay 18 (WB), Maharashtra State, Indian, an Indian Company. "a Radioset". 5th April, 1984.

Class 3. No. 154356. The Parker Pen Company, a company organized and existing under the laws of the State of Delaware, United States of America, of One Parker Place, Janesville, Wisconsin 53545, United States of America. "A Writing Instrument". 27th April, 1984.

Class 3. No. 153985. Godrej Soaps Limited, a Company registered under the Indian Companies Act, 1913, having its registered office at Pirojsha Nagar, Eastern Express Highway, Vikhroli, Bombay 400 079. "A Container". 18th January, 1984.

Class 3. No. 154412. Indo Cosmetics, 7A, Monmatha Dutta Road, Calcutta-700037. West Bengal. "Container". 16th May, 1984.

Class 3. No. 154280. Premier Trading Corporation, 6122, Gali Ishwari Parshad, Bara Hindu Rao, Delhi-110006, a firm registered under the Partnership Act, 1932. "Chilli Cutter". 10th April, 1984.

Class 3. No. 154351. Asian Advertisers, 20 Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400 004, Maharashtra, an Indian Partnership Firm. "Pin Container". 26th April, 1984.

Class 3. 154354, Asian Advertisers, 20, Kala Bhavan, 3 Mathew Road, Opera House, Bombay-400 004, Maharashtra, an Indian Partnership Firm. "Ashtray". 26th April, 1984.

Class 3. No. 154362. Sinter Plast Containers, Plastics Division of The Bharat Vijay Mills Ltd., Kalol (N.G.), Pin : 382721, Gujarat State, India. "Containers". 27th April, 1984.

SHANTI KUMAR  
Controller General of Patents,  
Designs and Trade Marks